THE CATALOG 2019-2020: COVER

Santa Rosa Junior College is a public community college of the Sonoma County Junior College District Accredited by the Western Association of Schools and Colleges.

PRESIDENT'S MESSAGE

WELCOME TO SANTA ROSA JUNIOR COLLEGE

What's your goal? To transfer to a four-year college or university, to gain skills quickly for a job or career, or to enrich your life through learning? If you answered "yes" to any of these questions, you've come to the right place.

At more than 100 years old, SRJC is always evolving, always focused on meeting the needs of our students. Today, our students attend classes on campuses in Santa Rosa and Petaluma, at our Public Safety Training Center, Shone Farm and Southwest Santa Rosa Center, as well as online. We offer classes in a wide variety of disciplines for students who plan to transfer, seek certificates, or need a single class to improve job skills.

Our faculty, staff, administrators, students and alumni make SRJC so special. Here, you're surrounded by a supportive network while you pursue your educational and career goals. This catalog will help you find out information about classes, majors and certificates. You can learn much more on our website at **www.santarosa.edu (http://www.santarosa.edu)**.

At SRJC, your future is waiting for you. I wish you an exciting year and look forward to seeing you on campus.

Dr. Frank Chong, Superintendent/President

ACADEMIC CALENDAR

FALL SEMESTER 2019

Date	Activity
TBD	Web site information available (**www.santarosa.edu (http://www.santarosa.edu)**)*
August 15, 2019	District-designated activities
August 16, 2019	Mandatory Professional Development Activity Institutional Day (No classes)
August 19, 2019	CLASSES BEGIN
August 25, 2019	Last day to register/add without instructor's signature or add code
September 1, 2019	Last day to drop semester length class and be eligible for a refund
September 2, 2019	Labor Day Holiday (No classes)
September 8, 2019	Last day to register/add with the instructor's signature or add code
September 8, 2019	Last day to drop a class without "W" symbol
September 9, 2019	First Census Day
September 17, 2019	Constitution Day and Citizenship Day (Classes will meet)
September 29, 2019	Last day to opt for P/NP
October 21- November 17, 2019	Midterm progress indicators posted in student portal
November 11, 2019	Veterans Day Holiday (No classes)
November 12, 2019	Professional Development Flex Day (No classes or activities)
November 17, 2019	Last day to drop a class with "W" symbol
November 28 - December 1, 2019	Thanksgiving Day Holidays (No classes)
November 29, 2019	Professional Development 1/2 Flex Day (No classes or activities)
December 14-20, 2019	Final Examinations
Dec 21, 2019 - Jan 12, 2020	Semester Break (No classes)
January 3, 2020	Final grade rosters due

Date	Activity
January 4, 2020	Fall semester processing finalized

SPRING SEMESTER 2020

Date	Activity
TBD	Web site information available
January 13, 2020	CLASSES BEGIN
January 19, 2020	Last day to register/add without instructor's signature or add code
January 20, 2020	Dr. Martin Luther King Jr. Day Holiday (No Classes)
January 21, 2020	Departmentally Determined Professional Development Activities Day (No classes)
January 26, 2020	Last day to drop semester length class and be eligible for a refund
February 2, 2020	Last day to register/add with the instructor's signature or add code
February 2, 2020	Last day to drop a class without "W" symbol
February 3, 2020	First Census Day
February 13, 2020	Mandatory Professional Development Activity Institutional Day (No classes)
February 14, 2020	Lincoln's Day Holiday
February 15-16, 2020	Saturday and Sunday (Classes will meet)
February 17, 2020	Washington's Day Holiday
February 23, 2020	Last day to opt for P/NP
March 23 - April 19, 2020	Midterm progress indicators posted in student portal
March 16-22, 2020	Spring Break
March 20, 2020	Professional Development 1/2 Flex Day (No classes or activities)
April 19, 2020	Last day to drop a class with "W" symbol
May 16-22, 2020	Final Examinations
May 23, 2020	Commencement Exercises
May 25, 2020	Memorial Day Holiday

Date	Activity
May 29, 2020	Final grade rosters due
May 30, 2020	Spring semester processing finalized

SUMMER TERM 2020

Date	Activity
TBD	Web site information available
June 15, 2020	CLASSES BEGIN
July 2, 2020	District Provided Holiday (No Classes)
July 3, 2020	Independence Day Holiday
FINAL EXAM GIVEN AT LAST CLASS MEETING FOR ALL SUMMER CLASSES	Depends on class end date
August 12, 2020	Last day of summer term
August 14, 2020	Final grade rosters due
August 15, 2020	Summer term processing finalized

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ACCREDITATION

Santa Rosa Junior College is officially accredited by the Western Association of Schools and Colleges and also has the approval of the State Department of Education. The University of California, and other highly ranked colleges and universities, give full credit for appropriate courses completed at Santa Rosa Junior College.

This College is approved for veterans. All occupational curricula the College offers in fields in which there are other evaluating agencies are accredited or approved.

The Accrediting Commission for Community and Junior Colleges (ACCJC) can be reached by calling (415) 506-0234 or fax (415) 506-0238 or writing: 10 Commercial Blvd., Suite 204, Novato, CA 94949.

Office of Civil Rights

ACADEMIC INTEGRITY STATEMENT

Sonoma County Junior College District holds that its primary function is the development of intellectual curiosity, integrity, and accomplishment in an atmosphere that upholds the principles of academic freedom . All members of the academic community–student, faculty, staff, and administrator–must assume responsibility for providing an environment of the highest standards, characterized by a spirit of academic honesty and mutual respect. Because personal accountability is inherent in an academic community of integrity, this institution will not tolerate or ignore any form of academic dishonesty .

Policy 3.11 Revised July 2012

DISCLAIMER

The Sonoma County Junior College District has made every reasonable effort to ensure the accuracy of the information provided in this Catalog at the time it was published. However, the provisions of this Catalog are not to be regarded as an irrevocable contract between the student and the College. The College reserves the right to change any provision or requirement at any time, taking precautions that such changes do not cause a hardship on students enrolled. Students are advised that the District Policy Manual **www.santarosa.edu/polman (http://www.santarosa.edu/polman)** is the official document which contains the most up-to-date SRJC policies and procedures and governs student academic rights and responsibilities. Students should consult the current Schedule of Classes or the college website **www.santarosa.edu (http://www.santarosa.edu/)** for supplementary information.

HISTORY OF SONOMA COUNTY JUNIOR COLLEGE DISTRICT

Santa Rosa Junior College (SRJC), founded in 1918, is the tenth oldest two-year community college in California's 114 publicly funded community college system. From its initial freshman class of 19 students, SRJC has grown to be one of the largest single college districts in the country, the Sonoma County Junior College District.

With 14 major high school districts in its borders, SRJC's district encompasses more than 1,600 square miles, stretching from the southern portion of Mendocino County in the north to the northern tip of Marin County in the south. It is bordered to the west by the Pacific Ocean and to the east by Napa and Lake counties.
The District operates two campuses in Sonoma County: a 100+-acre campus in the heart of Santa Rosa, and a 40-acre campus in Petaluma. The District also operates a regional Public Safety Training Center in Windsor and a 365-acre self-supporting farm near Forestville and a center for noncredit and adult education opportunities in Southwest Santa Rosa. Each semester, classes are also offered at dozens of locations throughout the District.

SRJC offers a strong general education program for students planning to transfer to four-year colleges and universities and more than 200 Career Technical Education programs designed to prepare students for careers in the workforce. The College grants Associate in Arts (AA), Associate in Arts for Transfer (AA-T), Associate in Science (AS) and Associate in Science for Transfer (AA-T) degrees.

In the course of its 101-year history, Santa Rosa Junior College has had only five Superintendent/Presidents: Floyd P. Bailey (1921–1957), Randolph Newman (1957–1970), Roy Mikalson (1971–1990), Robert F. Agrella (1990-2012) and the current Superintendent/President, Dr. Frank Chong, who was hired in 2012.

The Sonoma County Junior College District serves more than 37,000 students each year, attracting students from throughout the state as well as from over 48 countries.

VISION, MISSION STATEMENT, VALUES

VISION

SRJC aspires to be an inclusive, diverse and sustainable learning community that engages the whole person.

MISSION

SRJC passionately cultivates learning through the creative, intellectual, physical, social, emotional, aesthetic and ethical development of our diverse community.

- We focus on student learning by preparing students for transfer; by providing responsive career and technical education; and by improving students' foundational skills.
- We provide a comprehensive range of student development programs and services that support student success and enrich student lives.
- We support the economic vitality, social equity and environmental stewardship of our region.
- We promote personal and professional growth and cultivate joy at work and in lifelong learning.
- We foster critical and reflective civic engagement and thoughtful participation in diverse local and global communities.
- We regularly assess, self-reflect, adapt, and continuously improve.

VALUES

We balance and integrate the following core values in assuring the success of our diverse learning communities.
1. We value Learning that includes

- Excellent and innovative instruction and support services;
- A learning- and learner-centered environment;
- A welcoming physical environment;
- A caring and supportive attitude among faculty and staff;

- Access to programs and courses that lead to transfer and/or gainful employment.

2. We value Academic Excellence that includes
- Academic freedom balanced with academic responsibility, integrity and ethical behavior;
- Effective and transparent communication with information being shared in a timely fashion;
- Collaboration in continuous quality improvement of SRJC's programs and services.

3. We value Sustainability that includes
- The teaching of sustainability principles and concepts;
- Research on sustainable development projects/ issues;
- Incorporating ecological values and practices in the District's operations;
- Support and promotion of sustainability efforts in our community;
- Fiscal solvency and stability.

4. We value Diversity that supports
- Equal access for all students;
- Multi-ethnic global perspectives and cultural competencies;
- Employees who reflect the communities we serve;
- Honesty and integrity in an environment of collegiality and mutual respect.

5. We value Community that includes
- Community partnerships and advocacy for workforce and economic development;
- Cultural enrichment opportunities;
- Lifelong learning.

6. We value Beauty that includes
- Well maintained and aesthetically pleasing facilities and grounds;
- Holistic wellness;
- Joy in learning and work.

7. We value Compassion that includes
- Helping students develop a vision for their lives;
- Civic engagement opportunities that contribute to real world problem solving;
- Empathy to identify the challenges and address the needs of others;
- Collaborative leadership.

8. We value Innovation that includes
- Creativity, openness and risk taking;
- Multiple perspectives;
- Response to demographic, global, and technological changes.

Policy 1.1, October 8, 2013

INSTITUTIONAL LEARNING OUTCOMES

Santa Rosa Junior College's mission is to increase the knowledge, to improve the skills, and to enhance the lives of those who participate in our programs and enroll in our courses throughout the District.

In keeping with the mission, the college's Institutional Learning Outcomes represent our educational values. These outcomes arise from the most general and universal educational goals of the institution; they are neither program nor course specific. These outcomes demonstrate how all students, regardless of their course of study, have the opportunity to share in a collective academic culture.

Students, as a whole, will develop proficiency in the seven areas identified below as part of a dynamic educational environment. The breadth and depth of experience and proficiency that any individual student may reach in each of these outcomes is, of course, dependent upon the student, the program or course of study, and the length of college attendance. Through their experiences at SRJC, students will bring into the college community the following set of skills and values:

1. Foundational Skills
- Perform mathematical operations
- Utilize technology
- Read and write at the college level

2. Personal Development and Management
- Develop self-awareness and confidence
- Manage resources, such as time and money, in order to advance personal and career goals
- Maintain or improve health
- Appreciate the value of lifelong learning

3. Communication
- Listen actively and respectfully
- Speak coherently and effectively

4. Critical Analysis
- Locate, analyze, evaluate and synthesize relevant information
- Draw reasonable conclusions in order to make decisions and solve problems

5. Creativity
- Creatively respond to ideas and information

6. Intercultural Literacy and Interaction
- Recognize and acknowledge individual and cultural diversity
- Practice respectful interpersonal and intercultural communication
- Recognize and understand the ideas and values expressed in the world's cultural traditions

7. Responsibility
- Understand and demonstrate personal, civic, social, and environmental responsibility and cooperation in order to become a productive local and global citizen

NON-DISCRIMINATION STATEMENT

NON-DISCRIMINATION STATEMENT

The Sonoma County Junior College District does not discriminate on the basis of race, religious creed, color, national origin, ancestry, ethnic group identification, physical disability, mental disability, medical condition, genetic condition, marital status, sex, gender, gender identity, gender expression, genetic information or sexual orientation in any of its policies, procedures or practices; nor does the District discriminate against any employees or applicants for employment on the basis of their age. This non-discrimination policy covers admission, access and treatment in District programs and activities--including but not limited to academic admissions, financial aid, educational services and athletics--and application for District employment.

POLÍTICA DE NO DISCRIMINACIÓN

El Distrito del Colegio del Condado de Sonoma no discrimina por motivos de raza, religión, credo, color, origen nacional, ascendencia, grupo étnico, discapacidad física, discapacidad mental, condición médica, condición genética, estado civil, sexo, género, identidad de género, expresión de género, información genética u orientación sexual en ninguna de sus políticas, procedimientos o prácticas; ni discrimina contra cualquier empleado o solicitantes de empleo por motivos de su edad. Esta política de no discriminación cubre la admisión, el acceso y el tratamiento en los programas y actividades del Distrito – que incluyen, pero no se limitan, a las admisiones académicas, la ayuda financiera, los servicios educativos y el atletismo y la solicitud de empleo al Distrito. El Distrito del Colegio del Condado de Sonoma es una institución que ofrece igualdad de oportunidades.

SANTA ROSA CAMPUS

Santa Rosa Junior College
1501 Mendocino Avenue
Santa Rosa, CA 95401- 4395
Phone: (707) 527- 4011
Website: **www.santarosa.edu (http://www.santarosa.edu)**

Current Map of the campus is located at: **https://maps.santarosa.edu/ (https://maps.santarosa.edu/)**

During the early years Santa Rosa Junior College shared facilities with Santa Rosa High School. SRJC has now provided excellent higher education to Sonoma County residents for more than 100 years.

In 1931, the College moved to its own campus, a 40-acre oak-studded site just north of Santa Rosa High School, that was a favorite spot of the renowned horticulturist Luther Burbank. The property was jointly owned at the time by the City of Santa Rosa and the Santa Rosa Chamber of Commerce. Over the years more acreage was acquired, and now the Santa Rosa Campus includes over 100 acres.

The first building constructed on the Santa Rosa Campus was Pioneer Hall, which was completed May 18, 1931. It was badly damaged in the earthquake of 1968, and was refurbished due to its historical significance. It now houses the college Bookstore and Student Equity offices.
SRJC's Santa Rosa Campus, with its ivy covered brick buildings, towering oak trees, flower gardens, and manicured lawns, is one of the most beautiful campuses in the entire California Community Colleges system, and is used frequently as a location for commercial films.

In addition to its state-of-the art classroom facilities and laboratories, SRJC's Santa Rosa Campus houses the Robert F. Agrella art gallery and the Santa Rosa Junior College Museum. All are open to the public.

PETALUMA CAMPUS

Santa Rosa Junior College
Petaluma Campus
680 Sonoma Mountain Parkway
Petaluma, CA 95954 -2522
Phone: (707) 778-2415
Website: **http://petaluma.santarosa.edu/ (http://petaluma.santarosa.edu/)**

Current Map of the campus is located at: **https://maps.santarosa.edu/ (https://maps.santarosa.edu)**

Santa Rosa Junior College has been offering courses in the Petaluma area for over 50 years. The Petaluma Center operated primarily as an evening program until the completion in 1995 of permanent facilities on its current site. The Petaluma Center was granted Campus status by the SRJC Board of Trustees and the California Community College Chancellor's Office in the spring of 1999.

SRJC Petaluma currently enrolls nearly 4,500 students in credit and non-credit courses both day and evening classes. Each semester students enroll in approximately 350 course sections in nearly 60 disciplines, including 30 majors and certificates as well as all of the courses necessary for transfer to UC, CSU, or to complete SRJC's general education requirements.

A second phase of new construction for the Petaluma Campus was completed in 2008, and a third phase of construction completed in 2009 renovated the original campus. This project, the largest of its kind in SRJC's history, tripled the square footage of the campus, added seven new buildings, renovated another three, and expanded outdoor space and parking lots. Among the new facilities are life sciences labs, a second art studio, physical science labs, a 35,000 square foot library, a physical fitness center, a bookstore, student services and support areas (including student health services, student life and leadership, admissions and records, counseling, disabled student services, tutorial center, and career/transfer center), expanded dining space, classrooms/technology labs, faculty/administrative offices, digital media lab, and a 256-seat auditorium with some of the best media technology in the District. The campus offers state-of-the-art technology throughout, including a wireless network, fully mediated instructional facilities, and video-conferencing capabilities. Other unique features of the Petaluma Campus include the Capri Creek restoration project, community and permaculture gardens, sustainable design, and an accessible pedestrian and bike trail system with a route that extends around the perimeter of the campus and continues throughout the city of Petaluma.

Instructional offerings include a full complement of General Education courses and 20+ transfer majors, a state of the art Film Studies program that includes a Cinema Series and Digital Film Production classes, Fitness Nutrition and Health certificate, Veterinary Technology, Digital Media Audio, CISCO certification in CCNA, IT Support, Yoga Teacher Training certificate, and Water and Wastewater Utility Operations certificates. The campus is also home to SRJC's Gateway to College Academy, a middle college program for students earning college credits while working towards a high school diploma. Our House Intercultural Center hosts cultural and educational events that engage the community year-round, including the annual We the Future Social Justice Conference. Petaluma Campus opens its doors to the community every October for LumaFest, the annual education fair and open house. This beautiful campus is located only 35 miles north of San Francisco.

PUBLIC SAFETY TRAINING CENTER

SRJC Public Safety Training Center
5743 Skylane Boulevard
Windsor, CA 95492-9787
Phone: (707) 837-8843
Monday–Friday, 8:00 am–4:30 pm
Website: **http://pstc.santarosa.edu/ (http://pstc.santarosa.edu/)**

Current Map of the campus is located at: **https://maps.santarosa.edu/ (https://maps.santarosa.edu)**

In 1960, the District established its first Basic Police Academy, the first program in the state to be certified by the Peace Officer Standards and Training Program (POST). The program relocated to the current SRJC Public Safety Training Center (PSTC) in Windsor to provide basic training for police officers, correctional officers, probation officers, police dispatchers, seasonal park rangers, emergency medical technicians, paramedics and firefighters. The training center also provides in-service training for people working in public safety and has become the largest provider of in-service training for law enforcement personnel north of the Golden Gate Bridge.

The PSTC site is located on 20 acres in an industrial park on the southern edge of Windsor. The facility is comprised of administration and classroom buildings, an emergency medical care training laboratory, a 13,000-square-foot indoor firing range, a large multipurpose/gym building, as well as on-site parking for students and staff. There is also an 11 structure state-of-the-art Scenario Training Village, a three-story fire training tower with attached burn room, and an 11-acre driver training area, including a skid pad. These facilities are used by all of the programs for basic and in-service training.

B. ROBERT BURDO CULINARY ARTS CENTER

B. Robert Burdo Culinary Arts Center
1670 Mendocino Avenue
Santa Rosa, CA 95401
Phone: (707) 522-2800
Culinary Café Phone: (707) 522-2796
Website: **http://culinary.santarosa.edu (http://culinary.santarosa.edu)**

Current Map of the center is located at: **https://maps.santarosa.edu/ (https://maps.santarosa.edu/)**

In January 2012, the SRJC Culinary Arts Department moved into its new 22,000-square-foot B. Robert Burdo Culinary Arts Center across from the main Santa Rosa campus. The new Center features four commercial kitchens, four classrooms and the 100-seat SRJC Culinary Café and Bakery open to the public Wednesday through Friday.

The Culinary Arts Department offers five certificates to students desiring training for the professional workplace: Culinary Arts, Baking and Pastry, Dining Room Service, Front House Operations and Restaurant Management. The Department also offers two associate of arts degrees: Culinary Arts and Restaurant Management. Students are trained in all aspects of the culinary and hospitality fields, and are prepared for job opportunities as cooks, servers, and bakers in restaurants, hotels, catering companies, wineries and other related businesses. The SRJC Culinary Career Center assists students and graduates in their job search with a unique job match program and also offers students opportunities to gain experience working at special events in many venues throughout the North Bay.

SHONE FARM

SRJC Shone Farm
7450 Steve Olson Lane
Forestville, CA 95436-9450
Phone: (707) 535-3700
Website: **www.shonefarm.com (http://www.shonefarm.com)**
Agriculture/Natural Resources: (707) 527-4408
Ag Pavilion: (707) 535-3707

Current map of Shone Farm is located at: **https://maps.santarosa.edu/ (https://maps.santarosa.edu/)**

Santa Rosa Junior College's Shone Farm, named for a former member of the college's Board of Trustees, Robert Shone, was established in March 1972. The District was granted the use of 285 acres near Forestville, which was owned by the federal government and used during World War II as a federal broadcast information site. In 1986 the lease of an adjacent 80- acre parcel expanded the farm to its current 365 acres. Shone Farm is a self-supporting enterprise that ensures it is managed in a practical way to provide students with real-life educational experiences.

Gravenstein apples, hay and cattle were the only income-producing enterprises when the farm began. Today, Shone Farm features products for sale, such as award-winning wine and olive oil, produce and grass-fed beef. The farm has evolved into a diversified unit that provides a wide variety of educational opportunities for students majoring in agriculture and forestry. In the early 70's the livestock program began raising cattle and sheep on the 100 acres of pasture. Horses were later added for use by the equine program.

In the early 80's, fifty acres of vineyard were planted for use by the Viticulture program. This has grown to eighty acres that include varieties of grapes that are appropriate to our Russian River Valley wine appellation.

The Charles D. Belden Center, named in memory of the dean who helped establish SRJC's Agriculture Program, was built in 1983. The Belden Center, constructed with labor and materials donated by community and industry members, serves as the hub of activity at the farm.

In 1997 the College established a Sustainable Agriculture site on seventeen acres that includes a 2,000-square-foot greenhouse, as well as a block of apples and olives that are used for olive oil. SRJC's Culinary Arts Program uses the vegetables grown by the Sustainable Ag Program. Shone Farm produce is also sold direct to consumers and wholesale customers.

In 2002, the Rich Thomas classroom was built in dedication to Rich Thomas, the first Viticulture instructor for the SRJC Agriculture Department. This classroom is the result of the first major fund raising event sponsored by the SRJC Ag Trust. It is also used to host events and workshops.

In 2007, the Warren G. Dutton, Jr. Agriculture Pavilion was built at the farm. The pavilion offers instructional space for the college's Agricultural and Natural Resource Management programs, and provides an area for related community events. This facility also features a showcase arena, conference and learning center, wine education laboratory, and culinary kitchen.

In fall 2008, the Russ Gleason Memorial Arena was dedicated to SRJC's Equine Program. The most recent addition to the farm is the G. K. Hardt Stable completed in spring 2010.

SOUTHWEST SANTA ROSA CENTER

SRJC Southwest Santa Rosa Center
950 S. Wright Road
Santa Rosa, CA 95407

Phone: (707) 527-4229

Web site: https://southwest.santarosa.edu/ (https://southwest.santarosa.edu/)

In 2009, the District established the Southwest Santa Rosa Center. Its location is in Southwest Santa Rosa area, a community known as Roseland on 9.5 acres. The academic programs offered include Noncredit English as Second Language (ESL), College Skills, Older Adults, Computer Literacy, Adult Education and Community Education. It provides access to registration, assessment, orientation, counseling and follow-up services to various off-campus locations throughout Sonoma County.

Annually the Southwest Santa Rosa Center serves more than 7,000 students, including English language learners, from various areas in the region. It serves as a point of entry for newly arrived immigrants from around the world. On any given day, visitors can hear multiple languages spoken and experience the different cultures students bring from their native countries. It provides the academic skills for a diverse student population that enrolls in general education, vocational certificates, and other educational courses. The academic success students achieve enables them to enter the local and regional workforce, and succeed in our community.

THE CATALOG 2019-2020 SECTION 2: ADMISSIONS AND REGISTRATION

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THE BENEFITS OF ATTENDING SRJC

THE BENEFITS OF ATTENDING SRJC

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- To receive the guidance and help of counselors, advisors, and faculty in planning a program to meet your needs and challenge your abilities
- To prepare for transfer to the upper division of a four-year college or university
- To take advantage of the one- and two-year career training programs offered in a wide variety of fields
- To obtain guidance in determining aptitudes and vocations
- To participate in training, education, and activities for self enrichment
- To benefit from the extensive and diverse backgrounds of faculty who have an interest in your success and will strive to help you gain knowledge, skills, and understanding that enable you to meet your objectives
- To upgrade your position in career training fields through specific courses offered
- To take advantage of opportunities for student activities and leadership

ENROLLMENT ELIGIBILITY

SRJC enrollment is open to all high school graduates, holders of certificates of proficiency, and any person 18 years of age or older who can profit from the college programs. Students dual enrolled in high school must file the Dual Enrollment Program Request and an Application for Admission. Transfer students and international students are encouraged to apply, and special services are available to applicants with special needs through multiple services, such as Counseling Services, Disability Resources, Enabling Services, Extended Opportunity Program and Services (EOPS), Financial Aid, Adult Reentry & New Student Programs, and Veteran Services.

The Sonoma County Junior College District, in compliance with State Regulation, Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and Section 504 of the Rehabilitation Act of 1973, does not discriminate on the basis of race, color, national origin, religion, sex, or handicap in any of its policies, procedures, or practices; nor does the District, in compliance with the Age Discrimination in Employment Act of 1975, discriminate against any employees or applicants for employment on the basis of their age.

This nondiscrimination policy covers admission, access, and treatment in college programs and activities – including, but not limited to, academic admissions, financial aid, educational services, and athletics – and application for and treatment in college employment. In conformance with the requirements of Title II of the Educational Amendments of 1976, amending the Vocational Education Act of 1963, the College is committed to overcoming sex discrimination and sex stereotyping in vocational education programs.

In conformance with college policy and pursuant to Education Code Section 87100, et seq., the Sonoma County Junior College District is an equal opportunity/affirmative action employer.

Inquiries regarding the SRJC's equal opportunity/affirmative action policies may be directed to the District Compliance Officer, Santa Rosa Junior College or the Director of the Office for Civil Rights, Department of Health, Education and Welfare.

Students, job applicants, and current employees may complain of any action that they believe discriminates against them on the ground of race, color, national origin, religion, sex, handicap, or age, and may contact the District Compliance Officer for further information and procedures. Students enrolled in career training education programs may complain

of any sex discrimination, sex bias, or sex stereotyping to the Gender Equity Coordinator in the Human Resources Office.

ADMISSION REQUIREMENTS

An application is required for admission to SRJC. If you plan to register for courses that require significant mathematics, reading, or writing, placement by high school records, or completion of the guided self-placement activity can be very useful for you. Assessment for placement is a central part of the college orientation program.

STUDENT IDENTIFICATION NUMBER/ SOCIAL SECURITY NUMBER

SRJC uses a Student Identification number (SID), replacing the use of a Social Security number as the primary identifier for students.

SRJC continues to collect Social Security numbers, as they are necessary for financial aid recipients, federal tax credits, and state data reporting. The new SID number is printed on all SRJC documents and records.

PERSONAL IDENTIFICATION NUMBER (PIN)

For added security, students are required to establish a Personal Identification Number (PIN) upon initial logon to their student myCubby portal.

Once a PIN has been established, students will need to provide their PIN when using Web Link or in-person enrollment services.

For security reasons, if students forget their PIN, they will need to contact the Admissions and Records Office in person on the Santa Rosa or Petaluma campuses. Please be prepared to show photo identification.

SELECTING APPROPRIATE COURSES

The course descriptions listed in alphabetical order in the back of the Catalog help to determine which courses meet your college objectives. Counselors and advisors help to answer questions regarding requirements for graduation, for transfer and occupational curricula, and to handle other matters affecting your educational plans.

DATES TO REMEMBER

The college academic calendar at the beginning of this Catalog lists important dates, such as deadlines for registration and withdrawing, holidays, examinations, and the first day of classes. For more information, refer to the Admissions and Records web site at **https://admissions.santarosa.edu/academic-calendar (https://admissions.santarosa.edu/academic-calendar)**

APPLICATION FOR ADMISSION

Regular student matriculation requires filing:

1. Application for Admission is available online at **www.santarosa.edu/apply (http://www.santarosa.edu/apply)**. Furnish required information and evidence of residence so that legal residence can be determined.
2. Official transcripts of all previous schooling should be sent directly to the Admissions and Records Office for counseling purposes. In-person submittals must be received in a sealed envelope from the issuing college. Transcripts will be evaluated upon request. Transcripts may be required for graduation. All transcripts become part of each student's permanent record and will not be released to other institutions.
3. Copy of separation papers or documented Basic Training for military reserve members, if evaluation of credit is desired. Contact the Admissions and Records Office for additional information.

4. Santa Rosa Junior College English assessment activities are required for placement in an English class. Students are assessed for placement by high school records, or by completing the guided self-placement activity. Assessment for placement is not required of transfer students who have completed an equivalent English composition course. The Math and English as a Second Language departments also have required assessment activities. The results are used in placing students in appropriate courses. Application forms to take tests and other details may be obtained from the high schools or the Assessment Services Office.

HIGH SCHOOL DUAL ENROLLMENT STUDENTS

The $46-per-unit registration fee is waived for high school students enrolled in 11 units or fewer. Some courses may require payment of a material fee (see course description in class schedule). High school students are still required to pay the Student Health Services Fee, Student Center fee, Transportation Fee, course fees, and purchase their own textbooks as recommended or required for their college courses.

ENROLLMENT REQUIREMENTS FOR HIGH SCHOOL STUDENTS:

Each semester that a high school student attends Santa Rosa Junior College, he/she is considered a New Student and, therefore, must complete and submit the following to one of the SRJC admissions offices:

1. Complete an SRJC Application online as a high school student.
2. Complete the Santa Rosa Junior College High School Dual Enrollment Program Request form.

High school students must complete the Santa Rosa Junior College Dual Enrollment Program Request with his/her high school counselor who will help select classes that meet his/her educational needs. The student will only be permitted to register for classes that his/her counselor approves. Each form needs to be signed by the high school principal and counselor in order to be accepted by SRJC Admissions Offices. The form must also be signed by the student and parent.

Please submit all application materials at least 48 hours prior to registering for classes. Once application materials are processed, the student may register for classes.

LIMITATIONS ON ENROLLMENT:

High school dual enrolled students may enroll up to 11 units in the Fall and Spring semesters and 6 units in the summer term. Students who wish to take more than 6 units in the Summer term must file a Petition for Waiver of College Regulations. The petition should include the following documentation: A high school transcript, and a letter from their high school counselor on high school letterhead indicating the student's ability to succeed in 6+ units in the Summer term.

There is limited enrollment in Kinesiology (formerly Physical Education) activity classes for high school dual enrollment students. Only 10% of the total class seats available may be high school dual enrollment students. (Example: Total class seats = 40; high school dual enrollment total allowed= 4 students). This 10% limit applies to all semesters at SRJC, including summer term.

English courses: Dual enrolled high school students may not enroll in any English 300 level courses. However, high school students may enroll in English 100 through English 1A, provided placement activities have been completed.

Summer term only: Pursuant to Education Code 48800(d)(1), for any particular grade level, a principal of a high school may not recommend for community college summer term more than 5% of the total number of students who completed that grade level (9th, 10th, 11th, 12th) immediately prior to the time of recommendation.

An Application for Admission for the semester in which the student is applying, must be submitted before the Santa Rosa Junior College High School Dual Enrollment Program Request form can be processed.

INTERNATIONAL STUDENTS IN F-1 VISA STATUS

Santa Rosa Junior College (SRJC) encourages and welcomes international applicants. The International Student Program (ISP) staff helps students with the admissions and visa application process. All students who are accepted have access to an English guided self-placement activity to help the student in determining appropriate course levels. International students also receive assistance with course registration, academic counseling, tutoring, university transfer, and housing. SRJC currently hosts students from over 48 countries around the world.

ACADEMIC PROGRAM

SRJC offers over 100 associate degree majors, over 200 certificate programs, courses that transfer to four-year colleges and universities, and guaranteed transfer agreements. Many students earn a certificate or two-year associate degree and return to their home country to work or to pursue university studies, while others complete the associate degree and/or the first two years of bachelor degree requirements before transferring to university.

APPLICATION REQUIREMENTS

Applicants must provide evidence of financial support, proof of English proficiency, high school diploma, and copy of passport.

Students who do not meet the English proficiency requirement may consider attending one of our partner intensive English programs: ELS (**www.els.edu (http://www.els.edu)**) or SSALI (**www.sonoma.edu/exed/ssali (http://www.sonoma.edu/exed/ssali)**). Students enrolled at ELS or SSALI may receive conditional admission to SRJC, pending the completion of the intensive English program. Students who complete the required level of English proficiency at ELS or SSALI do not need a TOEFL or IELTS score. More information about admission requirements for international students can be found on our website: **international.santarosa.edu/admissions (https://international.santarosa.edu/admissions)**.

EMPLOYMENT

All international students are allowed to work on campus After completing one year of study, international students are eligible to seek off-campus employment through the Curricular Practical Training (CPT) program. After completing their program of study at SRJC, students can apply to work full-time for one year through the Optional Practical Training (OPT) program before transferring to a university or returning to their home country. More information about admission requirements for international students can be found on our website: **https://international.santarosa.edu/employment (https://international.santarosa.edu/employment)**

MANDATORY HEALTH INSURANCE

Santa Rosa Junior College has a mandatory health insurance plan. All international students are required to purchase this plan and will be automatically enrolled at the time of registration. Please visit the website at: **www.4studenthealth.com/srjc (http://www.4studenthealth.com/srjc)** for more information.Please visit our website for admissions requirements, application procedures, forms, deadlines, and additional information: **international.santarosa.edu/ (https://international.santarosa.edu/)**. You can also email any questions to **international@santarosa.edu (mailto:international@santarosa.edu)**.

Santa Rosa Junior College is authorized under federal law to enroll nonimmigrant students.

AIRFORCE RESERVE OFFICER TRAINING CORPS (AFROTC)

Air Force ROTC is offered through the Aerospace Studies department at UC Berkeley. Students may enroll in the program and attend one course per semester at the UC Berkeley campus at no cost. The AFROTC courses are AS1 - Foundations of the U.S. Air Force for first-year cadets (1 credit), AS2 - Evolution of USAF Air and Space Power for

second-year cadets (1 credit), AS135 - Air Force Leadership Studies for third-year cadets (3-credits), and National Security Forces in Contemporary American Society/Preparation for Active Duty for fourth-year cadets (3-credits). Additionally, all students (regardless of year) must take AS100 - Leadership Laboratory (0 credits - it is a 2-hour lab). The AFROTC program also includes 3 hours per week of fitness activities (1 hour at UC Berkeley, 2 hours on your own) and a 4-week Summer Field Training. Upon completion of the program and granting of 4-year degree, students will commission as Second Lieutenants in the United States Air Force. To be eligible for AFROTC, applicants should be a full-time student and meet additional fitness, GPA, testing, and other requirements. Qualified students may also compete for Air Force ROTC scholarships. Interested students should visit the department website, **http://airforcerotc.berkeley.edu (http://airforcerotc.berkeley.edu)** to get further information, then call (510) 642-3572 or e-mail **afrotc@military.berkeley.edu (mailto:afrotc@military.berkeley.edu)** to sign up.

ASSESSMENT

Assessment is a key component of the Student Success and Support Program that includes three steps:

1. Assessment for placement
2. Orientation, and
3. Counseling.

Assessment for placement is one of the critical steps to help students start on a successful pathway in college. It is also critical that you understand your placement options, and your rights to access transfer level coursework. If you have graduated from a U.S. high school within the last ten years (or will be graduating this academic year), your math and English placement will be calculated upon admissions and your results can be viewed in your cubby. All other students will do a guided self-placement activity for math and English. If students are interested in English as a Second Language (ESL) coursework, they must take a placement test to determine their appropriate level. The ESL test schedule and the guided self-placement activity can be accessed from the **assessment.santarosa.edu (https://assessment.santarosa.edu/)** webpage.

Students may fulfill the assessment for placement requirements by using the following information or methods. Specific information regarding each method and eligibility can be found at **assessment.santarosa.edu (https://assessment.santarosa.edu/)**

High school information (Math and English):

- High school information submitted through the application process will be reviewed for course placement.
- Having valid Early Assessment Program (EAP) results that satisfy placement conditions determined by the District can be used if the placement is higher than what would be given by other methods
- Earning a qualifying Advanced Placement (AP) score in the subject area.

Guided Self-Placement (Math and English):

- Participating in a Guided Self-Placement activity which allows students (who are not eligible to use HS records for placement) to receive the necessary information to select the most suitable courses

College information (Math and English):

- Completing an equivalent course at a post-secondary accredited institution in that subject area.
- Using placement test results from SRJC or other two-year California Community colleges within three years prior to registration if the placement is higher than what would be given by other methods.

- Obtaining placement results from other two-year California Community Colleges that are calculated in compliance with current legislation.

Placement test (ESL only)

- Taking the SRJC placement tests within three (3) years prior to initial registration.

  Special Accommodations: If you have a verifiable disability and require accommodations for the ESL placement tests, contact Disability Resources Department at the Santa Rosa Campus at (707) 527-4278 or the Petaluma Campus at (707) 778-2430.

AUDITING CLASSES

In conformity with California Education Code 76370, and Santa Rosa Junior College Policy 8.1.5, in order to attend classes on a continuous or regular basis, individuals must either enroll as a regular student or register as an auditor. The procedures and conditions for auditing a class are as follows:

1. Courses in which auditing is allowed will be posted each semester in the Admissions, Records & Enrollment Development Office and the online Schedule of Classes. The list of auditable courses is maintained by the Curriculum Office.
2. Appropriate unit fees, based on Education Code (plus any additional course costs) must be paid.
3. Students currently enrolled in 10 or more units may audit up to 3 units free of charge.
4. Auditor status will be allowed only if a student has exhausted repeat possibilities as a regular student in selected classes (See Repeat/Policy Codes in the Schedule of Classes).
5. Auditors must be eligible for admission to college as regularly enrolled students.
6. Auditors must meet the course prerequisite.
7. Instructor must sign an audit card to show approval for student to attend class as an auditor on a space available basis.
8. Auditors will be allowed to register only after the first census date for the course in order to give priority to students registering for credit. Auditors will not be permitted to attend the course until enrollment is secured after first census. Auditors must submit an Audit Card signed by the instructor to the Office of Admissions, Records & Enrollment Development to secure enrollment.
9. Auditors may NOT change their status to regular student in the class (or reverse).
10. Once the auditor fee is paid, it will not be refunded.
11. Students registered, as auditors only, will not be entitled to the regular student health services (other than emergencies).
12. No grades can be earned or transcripts maintained.
13. The instructor and student auditor will agree upon the auditor's level of participation in the class.

Procedure 8.1.15P, Reviewed January 2012

CHANGE OF PROGRAM

Adding and dropping classes is not automatic and can be accomplished only through the Web or the submission of the appropriate card to the Admissions and Records Offices on the Santa Rosa and Petaluma campuses. The current Schedule of Classes should be referred to for the exact procedure and deadline dates for adding and dropping classes.

CONTINUING EDUCATION

The College serves the needs and interests of both the part-time and full-time student by providing a wide range of college credit and noncredit courses, including programs during day and evening hours and on weekends. In addition to the main body of classes offered at the Santa Rosa Campus, the College also conducts classes at the Petaluma Campus, Cloverdale, Forestville, Healdsburg, Point Arena, Rohnert Park, Windsor, and other areas within the District, as needed.

Admission to off-campus courses is governed by the same requirements as admission to the on-campus courses. High school graduates and holders of high school certificates of proficiency, regardless of age, are eligible. Non high school graduates must be at least 18 years of age to be eligible. High school students may enroll in a limited number of classes with the permission of their high school principals. (See “High School Dual Enrollment Students.”)

A full range of college credit courses are offered during the evening hours, allowing a student to fulfill all of the requirements for the associate’s degree, a variety of Career Technical Education certificates, and the requirements for transfer to a four-year college or university.

The College offers programs in Career Technical Education areas designed to upgrade employee skills. These areas include: Administration of Justice/Public Safety, Agriculture/Natural Resources, Applied Technology, Apprentice Education, Business Administration, Child Development, Computer Studies, Electronics, Health Sciences, and Industrial and Trade Technology. Refresher courses in various Career Technical Education areas are offered as needed.

Noncredit classes are offered in English as a Second Language, Child Development, Consumer and Family Studies, Health Education, and Learning Skills. Some courses are designed specifically for older adults and persons with disabilities.

Refer to the current Schedule of Classes or **www.santarosa.edu (http://www.santarosa.edu/)** for current class listings and information or call the individual department.

FEE SCHEDULE AND INFORMATION

Although there is a state-mandated fee for all students, there is no tuition charge at Santa Rosa Junior College for California residents.

The following are updated SRJC fees:

Fee	Cost	Notes
Auditor Fee	$15.00 per unit	
Convenience Fee	$2.00	Applies to Internet registration transactions only.
Enrollment Fee	$46.00 per unit	Subject to change by California State Legislature.
Course Costs	Variable	

Fee	Cost	Notes
GED Test	$140.00 all 4 subjects/ $35.00 per subject	
Health Fee	$21.00 fall, spring $18.00 summer	
Capital Outlay	$65.00 per unit (in addition to enrollment fee and non-resident tuition)	Subject to change by California State Legislature. Any student who can demonstrate economic hardship, or who is a victim of persecution or discrimination in the country in which the student is a citizen and resident, is exempt from this fee. Economic Hardship defined: Economic hardship may include loss of financial assistance or sponsorship, substantial fluctuations in the value of currency or exchange rate, unexpected changes in the financial condition of a student's source of support, or other substantial and unexpected changes in income or expenses. This shall include the financial circumstances of a person who is a recipient of benefits under the Temporary Assistance to Needy Families Program, the Supplemental Income/State Supplementary Program, or a general assistance program.
Nonresident Tuition	$265.00 per unit	
Student Photo Identification Fee	$5.00	
Student Representation Fee	$1.00	

Fee	Cost	Notes
Student Center Fee	One dollar ($1) per unit, not to exceed ten dollars ($10) per fiscal year. This may be required of all students attending community college where the centers are located. This requirement shall not apply to students enrolled in non-credit classes or those enrolled in the Temporary Assistance for Needy Families Program, the Supplemental Security Income/State Supplementary Program or the General Assistance Program.	
Student Transportation Fee	This may be required of all students attending community college where the centers are located. One dollar ($1) per unit, not to exceed ten dollars ($10) per semester and five dollars ($5) for the summer term.	
Transcript Fee	$5.00 each (After first two free transcripts)	
Transcript Pick-up	Additional fee $5.00 each	
Verification Fee	$5.00 each	
Verification Pick-up and Rush Requests	$5.00	

Procedure 5.4P, Revised November 2013

INDEPENDENT STUDY COURSES (COURSES NUMBERED 49 AND 98)

Independent Study or special project courses are numbered “49” and “98,” and are offered to provide an opportunity for students to further their knowledge and skills in a specific subject.

It provides the student experience in planning and outlining a course of study on his own initiative under instructor and departmental supervision.

It provides experience in working independently of a formal classroom situation and hopefully will inculcate in students a commitment to continuing independent self-education in the years following formal higher education.

The College believes many of its students have reached a point of competence and self-discipline necessary to carry on special project courses. These courses will be considered as elective credit in the particular department in which the course is offered.

It is recommended that students who contemplate enrolling for special project courses should have completed one semester of college work and should have taken at least one previous course in the specific department in which the course is offered.

An eligible student desiring to register for "49/98" courses must first develop his own project and submit this in writing for the approval of the instructor who will guide the project, the chairperson of the department in which the course is given and the Office of Academic Affairs. Request forms are available in the offices of instructional deans.

The applicant will show that his background is adequate for the proposed study. The privilege of "special projects" courses is limited to students who have at least a 2.00 (C) grade average in all courses previously taken in the field or department in which the "special project" is to be taken, either in this institution or in work which may have been attempted at other institutions. Students who are on academic probation are ineligible for independent study. The requirements may be waived in exceptional cases.

Regular meetings between student and instructor are held. Examinations, including a final, plus field trips, term papers, and other assignments may be made by the instructor.

A total of six (6) units credit is allowed toward the AA degree or 60-unit transfer requirement for any combination of "49" and "98" courses. It is recommended that three (3) units a semester be considered a reasonable load.

Other than independent study projects, the "98" series also may include classroom laboratory teaching assistance.

1. The student and instructor fill out the form together. Note that the form asks for a detailed course description. As this is a contract between the student and the instructor, expectations should be concrete and clear. See the catalog or review the attached policy statement about the nature of special studies.
2. The student is responsible for securing the signatures of the Department Chair and the supervising administrator.
3. It is the student's responsibility to obtain the add code from the instructor and to enroll in the class.

Steps 1 and 2 should be completed at least one week prior to the last day to add.

Procedure 3.17P, Revised February 2012

MYCUBBY (STUDENT PORTAL)

Effective, November 12, 2008, SRJC implemented a new Web tool called "SRJC – myCubby." This Web tool, also known as the Student Portal, is used by all students to add/drop/register for classes, view grades, pay fees, receive announcements from instructors and much more. This Web portal is accessible at **www.santarosa.edu/portal (http://www.santarosa.edu/portal)**.

OPEN CLASSES

It is the policy of the District that, unless specifically exempted by statute, every course, course section, or class reported for state aid wherever offered by the District shall be fully open to enrollment by any person admitted to the College and who meets such prerequisites as may be established. **www.santarosa.edu/portal (http://www.santarosa.edu/portal)**

Policy 8.1 Revised January 2014

PETITION FOR WAIVER OF COLLEGE REGULATIONS

A student may obtain a petition to waive local college regulations in the Admissions, Records and Enrollment Development Office or online at **http://admissions.santarosa.edu/forms (http://admissions.santarosa.edu/forms)**

PRECOLLEGIATE BASIC SKILLS UNIT LIMITATION (REMEDIAL COURSEWORK)

It is the policy of the College to exercise a limit on the number of precollegiate basic skills credit units a student may earn at SRJC. Such limitation will take into account appropriate exemptions and waivers for certain students as permitted by the Title 5 California Code of Regulations. The College shall establish and publish procedures that will assure implementation of reasonable standards for student notification, dismissal, appeal, and reinstatement pursuant to this policy.

The precollegiate basic skills courses include non-degree credit courses in reading, writing, computation, and English as a Second Language designed to ensure acquisition of those skills necessary for successful completion of associate degree, transfer, and career training courses.

A student is permitted to earn a cumulative total of thirty (30) credit units in precollegiate basic skill courses at Santa Rosa Junior College.

Credit course units transferred from other colleges will not count in the thirty (30) unit limitation.

All precollegiate basic skills courses taken by students enrolled in English as a Second Language courses and students identified by the District as having a verified learning disability, acquired brain injury, and hearing impairment are exempt from the thirty (30) unit limitation.

Policy 8.1.14P, Reviewed January 2012

REFUNDS

Due to changing registration and other state-mandated fees, up-to-date refund schedules are contained in the current Schedule of Classes. For current details regarding the fee amounts, refund policy, and services available please visit: **https://accounting.santarosa.edu/student-fees-and-refund-deadline-dates (https://accounting.santarosa.edu/student-fees-and-refund-deadline-dates)**.

Policy 8.1.4, Reviewed January 2012

REGISTRATION PRIORITY

The California Community Colleges Board of Governors recently approved changes that establish system-wide enrollment priorities designed to ensure classes are available for students seeking job training, degree attainment or transfer and to reward students who make progress toward their educational goals.

One of the great benefits of the changes is that new fully matriculated students who have completed college orientation, assessment and developed an education plan, as well as continuing students in good academic standing who have not exceeded 100 units (not including basic English, Math or English as a Second Language) will have priority over students

who do not meet these criteria.

Active-duty military and veterans, current and former foster youth, homeless youth, students in CalWORKs, Extended Opportunity Programs and Services and Disabled Students Programs and Services will continue to have the highest priority level for registration if they meet the same criteria listed above.

Students on probation are encouraged to consult with a counselor to discuss options to improve their academic standing. Two consecutive semesters of academic and/or progress probation can result in loss of priority. Students nearing 100 units should carefully plan their remaining courses.

Beginning Spring 2015:
All new and returning students must complete Assessment, Orientation, and have an Education Plan on file in order to ever earn a registration priority. If you are a continuing or returning student who began Spring 2015 or after and do not have priority, one or more of the following steps is missing: assessment, orientation, or education plan. Please see a counselor to review your options to receive registration priority.

REINSTATEMENT IN A CLASS

A student who has been dropped from a class by an instructor because of excessive absence or failure to complete class work may be reinstated. If the student agrees to make up work missed and obtains the approval of the instructor within stated deadlines, he or she will be reinstated. In such cases, the student must complete a Petition to Waive College Regulations, obtain instructor support and signature and file it with the Admissions and Records Office.

RESIDENCY REQUIREMENTS

Any person enrolling in Santa Rosa Junior College is subject to the residency requirements determined by the Education Code of the state of California. Residence is classified as follows:

RESIDENT STUDENT

A resident student is one who has a legal residency in California for more than one year immediately preceding the beginning of the semester and who demonstrates the intent to remain.

NONRESIDENT STUDENT

A nonresident student is one who does not have legal residence in California for more than one year immediately preceding the beginning of the semester. Such students are required to pay a tuition fee.

All new students will be required to file an application and statement of residence.

DETERMINING IN-STATE RESIDENCY

A resident is a student who has residence in California for more than one year immediately preceding the opening day of instruction and has demonstrated an intent to remain. Demonstration of intent may be attained by filing California State Income Tax forms or registration to vote in state and local elections or other reasonable evidence of permanent stay in California, such as vehicle registration, work documentation, etc.

1. Persons who are 18 years of age or older may establish residency in accordance with the above statement. Year of residency must begin after the eighteenth birthday.
2. Persons who are under 18 years of age may establish residency in accordance with the above “Resident” definition and the following:
   A. Married minors may establish their own residence.

B. The residence of the supporting parent is the student's residence. In the event of death of both parents, the minor may determine his her own residence.
C. The residence of an unmarried minor who has a parent living cannot be changed by his/her own act, by appointment of a legal guardian, or by relinquishment of a parent's right of control. E.C.S68000

3. A student who has "permanent residence status" may establish residency in accordance with the preceding "Resident" definition.
4. Refugees, asylees, and other applicants for legal immigration status may establish residency in accordance with the preceding "Resident" definition.

The residency determination date is the day prior to the first day of instruction of each semester. The current Schedule of Classes gives dates for the current semester.

All students classified as nonresident are required to pay a nonresident tuition fee per unit per semester at the time of registration. (This fee is subject to annual change.)

A nonresident student enrolled in error without payment of the nonresident fee will be excluded from classes upon notification pending payment of the fee. A nonresident student enrolled without payment of fees because of falsification of information will be excluded from classes upon notification pending payment of the fee, shall not be readmitted during the semester or summer session from which he/she was excluded, and shall not be admitted to any subsequent semester or session until all previously incurred tuition obligations are paid.

MILITARY AND VETERANS NONRESIDENT TUITION EXEMPTION

Military personnel on active duty in California, their spouses and dependent children qualify as immediate residents. Other exemptions to tuition for military personnel may be available pursuant to Veterans Access Choice and Accountability (VACA). Contact Admissions & Records

for information or go to **http://admissions.santarosa.edu/forms (http://admissions.santarosa.edu/forms)**

NONRESIDENT TUITION WAIVER UNDER AB540 AND AB2000

Exemption from non-resident tuition is available to certain non-resident students who attended high school in California for at least three years and received a California high school diploma or its equivalent (per AB 540 and AB 2000 statute). Contact Admissions & Records for information and an exemption request form or go to: **http://admissions.santarosa.edu/forms (http://admissions.santarosa.edu/forms)**

Non-resident students do not automatically become residents by being in California for one year. A student seeking reclassification from non-resident to resident status must complete and file a Residency reclassification Request Form and must provide evidence of intent to establish permanent California residency prior to the start of the semester in which the student is seeking reclassification. The burden of proof is on the student to clearly demonstrate physical presence in California, intent to establish California residency and, in the case of students changing from non-resident to resident, financial independence from non-resident parents.

SRJC SCHEDULE PLANNER

SRJC Schedule Planner is a new class schedule planning tool which allows students to create and compare multiple class schedules for a given semester based on course preferences as well as other commitments such as work, sports, or family schedules.

SRJC Schedule Planner can generate every possible schedule for students so that they can maximize their course selections and remain on track for a timely graduation. Students can view up to four schedules side-by-side and compare options. After selecting their preferred schedule, students can use it as a reference when they register in the

SRJC student portal.

Disclaimers:

- SRJC Schedule Planner does not enroll you in classes. You must enroll via the SRJC Student Portal during your priority registration time.
- Enrollment policies (prerequisites, unit limitations, etc.) are only checked at the point of registration.

For more information, please visit: **https://admissions.santarosa.edu/schedule-planner (https://admissions.santarosa.edu/schedule-planner)**

SCHEDULE OF CLASSES

The current Schedule of Classes lists day and evening classes, both on and off campus, and is published each semester. The Schedule of Classes also includes registration procedures, information about courses offered, student load limitations, program changes, calendar dates, graduation, general education requirements, and certificate requirements. Class information is available at **classes.santarosa.edu (http://www.santarosa.edu/)**.

STUDENT CLASSIFICATION

Freshman: A student who has completed fewer than 30 semester units.

Sophomore: A student who has completed 30, but fewer than 60 semester units or who has 60 or more units but does not hold a degree.

Full time: Students enrolled in 12 or more units in the fall or spring semester; 6 or more units in the summer term. Courses being repeated or short-term courses may not be included in computing full-time status.

Half time: Students enrolled in 6 to 11.5 units in the fall or spring semester; 3 to 5.5 units in the summer term.

Part time: Students enrolled in 5.5 or less units in the fall or spring semester; 2.5 or less units in the summer term

STUDENT LOAD

All units, including all repeat units, are counted to compute student load. A normal load is 15 units. Work Experience units are included in the student load.

The summer session is one-third to one-half shorter than fall or spring semester, and the accelerated pace and intensity may make subject areas more difficult for students. Therefore, 6 units in a summer session may be equivalent to a full-time load during the regular semester. Students who wish to enroll in more than 6 units during the summer should consider this and consult with a counselor for assistance in summer planning.

In the Fall 1992 Semester, Santa Rosa Junior College began enforcing a unit limitation policy for students. The purpose of this policy is to enhance student success by discouraging unreasonable unit overloads, minimize the course shopping phenomenon, and provide a more equitable distribution of impacted course seats throughout the six levels of student priorities and new student registration.

1. Continuing students will be limited to a total of 16 units during the priority registration period (Priority 1, 1A, 2, 3, 4, 5). Some students will have to plan their registration carefully so that their priority enrollment is not greater than 16 units.
2. Continuing students may register up to the 20 unit limit immediately after priority registration is over. Hence, continuing students can increase units when open registration begins. Since most new student registration begins with an open registration period, they will be able to register for 20 units even at initial registration.
3. Students may petition to exceed 20 units. Evidence of ability to succeed in units exceeding 20 units is required, such as: cumulative GPA of 3.0; 75 percent of grades are positive progress; good academic progress standing; other special documentation; and counselor/faculty recommendation.

Policy 8.1.7, Reviewed January 2012

UNIT DEFINED

One lecture hour and two hours of outside work throughout the semester ordinarily serve as a basis for one unit of credit. The number of hours required per semester unit of laboratory or other activity is approximately three, depending upon the character of the work. Thus, one semester credit hour of community college work should be approximately 48 hours of lecture, study, recitation, demonstration-discussion, and laboratory work or any combination thereof.

UNIT LIMITATIONS

Veterans: Not less than 12 units for full subsistence

International Students: Not less than 12 units

Varsity Athletes: Not less than 12 units

Doyle Scholarship Students: Not less than 12 units for full award

WORK/STUDY LOADS

Students working part time should limit their college load. It is recommended that students who work part time should follow these proportions in distributing their time per week:

Academic Units	Lecture, Lab, Hours	Work Activity Units
12-15	36-45	8-15
9-12	27-36	15-20
3-9	9-27	20-40

THE CATALOG 2019-2020 SECTION 3: RIGHTS, RESPONSIBILITIES, POLICES AND REGULATIONS

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Non-Discrimination Statement

Probation, Dismissal, Readmission, and Renewal

Repetition of Courses

Student Complaint/Grievance

Student Conduct and Discipline Due Process

Student Equity

Student Obligations and Responsibilities

Student Right to Know

Student Success and Support

Taxpayer Relief Act of 1997 (Education Tax Credit)

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Transcripts

Unlawful Discrimination and Sexual Harassment

Verifications

Wait Lists

ACADEMIC FREEDOM

The Board of Trustees recognizes that Academic Freedom is necessary to the pursuit of truth and supports the principles of Academic Freedom enunciated in the contract negotiated between the recognized faculty bargaining units and the District. The contract language is hereby incorporated into District policy by reference.

Policy 3.8, Reviewed January 2012

ACADEMIC HONORS (FORMERLY DEAN'S HONORS LIST)

The Academic Honors designation recognizes students who have maintained high scholarship in 12 or more graded units in the fall and spring semesters:

Honors: GPA between 3.20 and 3.39
High Honors: GPA between 3.40 and 3.59
Highest Honors: GPA between 3.60 and higher

Students who fulfill these requirements receive acknowledgment on their permanent transcript. Written recognition from the Admissions and Records office is available upon request.

Policy 8.1.10, Revised June 2013

ACADEMIC INTEGRITY

Sonoma County Junior College District (SCJCD) holds that its primary function is the development of intellectual curiosity, integrity, and accomplishment in an atmosphere that upholds the principles of academic freedom. All members of the academic community - student, faculty, staff, and administrator - must assume responsibility for providing an environment of the highest standards, characterized by a spirit of academic honesty and mutual respect. Because personal accountability is inherent in an academic community of integrity, this institution will not tolerate or ignore any form of academic dishonesty.

Academic dishonesty is regarded as any act of deception, benign or malicious in nature, in the completion of any academic exercise. Examples of academic dishonesty include cheating, plagiarism, collusion, and other academic misconduct.

Faculty, students and administrators are partners in maintaining the District's academic integrity in accordance with the guidelines delineated below.

FACULTY RESPONSIBILITIES

1. Conduct each course in a manner that encourages mutual respect, honorable behavior, and learning, thereby promoting student success and discouraging academic dishonesty.
2. Inform students of the course requirements, grading procedures, and rules and expectations for acceptable conduct and behavior in each course, including definitions of academic dishonesty and the ethical use of technology. A statement

about academic integrity and consequences should appear in the course syllabus.
3. Inform students of the SRJC policy on Academic Integrity and the Student Conduct Standards, which is in the SRJC College Catalog and part of the District Student Discipline policy. Explain how these policies will be applied in each course.
4. Inform students of their rights to due process should they wish to contest an allegation or penalty.

STUDENT RESPONSIBILITIES

1. Conduct oneself in a respectful, honorable manner that focuses on learning, academic honesty, and success for both oneself and other students.
2. Learn and understand the course requirements, grading procedures, and rules and expectations for acceptable conduct and behavior in each course, including definitions of academic dishonesty and the ethical use of technology.
3. Learn and understand the SRJC policy on Academic Integrity and the Student Conduct Standards, which is in the SRJC College Catalog and part of the District Student Discipline policy.
4. Learn and understand students' rights to due process in contesting an allegation or penalty made by an instructor or other representative of the district.

DEPARTMENT CHAIR PROGRAM DIRECTOR/SUPERVISING ADMINISTRATOR RESPONSIBILITIES

1. Support department/program faculty in their efforts to maintain an environment that promotes academic honesty.
2. Promote and maintain consistent department/program practices in dealing with incidents of academic dishonesty. This may include, but is not limited to, conducting discussions of best practices for both students and faculty.
3. Consult with instructors and the Vice President of Student Services or designee in reviewing cases and determining appropriate sanctions.
4. Act as liaison, when necessary, between student and instructor, or between instructor and Administration.

ADMINISTRATIVE RESPONSIBILITIES

1. Support faculty and students in their efforts to maintain academic honesty.
2. Make readily available the Academic Integrity policy and procedure to faculty, students, and staff.
3. Provide appropriate technology and other resources to assist faculty and staff in identifying acts of academic dishonesty.
4. Enforce the due process procedures provided in the Student Conduct Standards to deal promptly, fairly, and justly with cases of alleged academic dishonesty so the procedures gain and hold the confidence of students and instructors.
5. Ensure that all policies and procedures be applied equally and uniformly throughout the District, and are consistent with the Education Code and District policy.
6. In particular, the Vice President of Student Services or designee will keep and maintain documentation of violations.

Policy 3.11 and Procedure 3.11P, Revised July 2012

ATTENDANCE REQUIREMENTS

It shall be the policy of the Sonoma County Junior College District to maintain an attendance policy and procedures consistent with state and local requirements.

A. Attendance

1. Students are expected to attend, and in the case of online classes, participate in, all sessions of the course in which they are enrolled.

2. A student may be dropped from any class when that student's absences exceed ten percent (10%) of the total hours of class time.
3. With advanced notice and appropriate documentation, members of the U.S. Military Armed Services and Reservists shall have their absences accommodated due to service obligations provided that satisfactory academic progress is being made prior to suspending their studies. For the purpose of this policy, a student is making satisfactory academic progress so long as, at the start of the absence, the student has the potential to pass the class after completing the remaining assignments.
4. Specific courses may have stricter requirements based on professional certification mandates or curricular situations in which absences will severely compromise the learning for other students (such as team or performance ensemble courses). These stricter requirements shall be stated in the course syllabus.

B. Nonattendance

1. Students who fail to attend the first class meeting may be dropped by the instructor. For classes that meet online, students who fail to log on and initiate participation by 11:59 p.m. Pacific Time of the first day of the class may be dropped by the instructor. The start date for full semester online classes is the official first day of the semester; for short-term classes, the first day will be specified in the schedule of classes.
2. Instructors are required to drop all No-Show students immediately following the second class meeting. A No-Show is an enrolled student who has not attended any class meeting of the course. For classes that meet online, a No-Show is an enrolled student who has not logged on and initiated active participation by 11:59 p.m. Pacific Time of the second day of the class.

C. Excessive absence defined

1. Instructors shall state in each course syllabus what constitutes excessive absence for that course.
2. Any student with excessive absences may be dropped from the class.

D. Excused and unexcused absences

1. Unless state or federal law, including Executive Orders, requires that the absence be deemed excused, no instructor shall be required to make a distinction between excused and unexcused absences.
2. If instructors wish to distinguish between excused and unexcused absences they shall state in each course syllabus all criteria for any excused absences in addition to those required by state or federal law.

Policy 8.1.5 and Procedure 8.1.5P , Revised February 2014

CAMPUS CRIME REPORTING AND CAMPUS SECURITY ACT (CLERY ACT)

The Sonoma County Junior College District Board of Trustees understands the need to maintain an environment as safe as possible for students, employees and the public.

In meeting this responsibility, the Board of Trustees has created a District police department with sworn police officers who adhere to the State of California Commission on Peace Officer Standards and Training (P.O.S.T.) requirements.

The District Police Department provides timely notices, issues an annual security report, keeps current public crime logs, and compiles, maintains and reports crime statistics in accordance with applicable state and Federal laws including the Campus Security Act of 1990, known as the "Clery Act."

For more information, please visit: **https://police.santarosa.edu/clery-annual-reports (https://police.santarosa.edu/clery-annual-reports)**

Policy 7.13.1, Reviewed January 2012

CHANGES IN REQUIREMENTS

Santa Rosa Junior College reserves the right to change the regulations whenever the authorities deem it necessary, taking precautions that such changes do not pose a hardship or injustice to students already registered.

COPYRIGHT POLICY

Sonoma County Junior College District will adhere to all applicable state and federal laws regarding copyright compliance. District employees and students must obtain all required licenses, consents, and releases necessary to avoid infringing the rights of third parties. The District supports the responsible, good faith exercise of full fair use rights as codified in the United States Copyright Act by faculty, librarians, staff and students in furtherance of their teaching, research, studies and service activities.

The office responsible for copyright compliance for the Sonoma County Junior College District is the Office of the Dean, Learning Resources and Educational Technology.

Policy 3.18.1, July 2012

CREDIT BY EXAMINATION

Credit by Examination enables students to use their acquired knowledge, abilities, and competence to challenge certain existing courses for units. Credit will be granted to any student who satisfactorily passes an examination approved or conducted by proper authorities of the College. Such credit may be granted only to a student who is registered at the College and in good standing and only for a course listed in the College Catalog.

REGULATIONS FOR CREDIT BY EXAMINATION

1.0 A department chair, after consultation with the faculty in the department, may apply to have a credit course within a given department available for Credit by Examination. Examination may not be limited to a written test. It may include: demonstration of skills competencies, assessment of portfolio, or use of a cumulative assessment tool approved by faculty, who normally teach the course, which is deemed an appropriate mechanism to measure student competency in the course. A written application must be submitted to the cochairs of the curriculum committee along with a copy of the exam. In the case of the use of a cumulative assessment tool, e.g., criteria for skill demonstration; rubric for portfolio assessment, the co-chairs will recommend approval to the Curriculum Review Committee (CRC), if the following conditions are met:

1.1 The course outline of record indicates that examination or other cumulative assessment tool is an appropriate method of assessment for this particular course.

1.2 The department chair, on behalf of the faculty in the department, verifies in writing that the exam or other cumulative assessment tool adequately measures mastery of course content as set forth in the course outline of record.

2.0 The exam or cumulative assessment can be administered by the department as soon as Curriculum Review Committee approval is secured. The course will be placed on the list of courses eligible for credit by exam in Academic Affairs, and updated lists are published in each printing of the College Catalog.

3.0 The nature and content of the examination or other cumulative assessment shall be determined solely by the faculty in the discipline that normally teaches the course for which credit is to be granted. The faculty shall determine that the examination or other cumulative assessment adequately measures mastery of the course content as set forth in the course outline of record.

(Title 5, 55050(c))

4.0 The faculty may accept an examination or other cumulative assessment conducted at a location other than the community college for this purpose. (Title 5, 55050(c)) For example, the faculty may accept standardized exams regulated or prescribed by the State of California for specific occupational areas. The department chair should apply for credit by exam as described in number 1 above.

5.0 A separate examination or cumulative assessment shall be conducted for each course for which credit is to be granted. Credit may be awarded for prior experience or prior learning only in terms of individually identified courses for which examinations are conducted pursuant to this procedure.

(Title 5, 55050 (d))

6.0 The student's academic record shall be clearly annotated to reflect that credit was earned by examination.

(Title 5, 55050 (e))

7.0 Grading shall be according to the regular grading scale approved by the governing board pursuant to Title 5, section 55023, except that student shall be offered a pass/no pass option if that option is ordinarily available for the course.

(Title 5, 55050 (f))

8.0 A student who receives credit by exam for a particular course shall not be allowed to subsequently earn credit by exam for any other course that normally precedes that course in a prerequisite sequence.

9.0 Units for which credit is given pursuant to this policy shall not be counted in determining the 12 semester hours of credit in residence required for the associate degree. (Title 5, 55050 (g)) Units earned through credit by exam are not considered for financial aid, scholarships, or veteran services eligibility and payments.

10.0 No more than TWO attempts to be granted Credit by Examination or cumulative assessment will be allowed including an exam the student registered for and failed to attend. However, if a student registers for an exam and subsequently drops the course before taking the exam, this does not count as an attempt.

11.0 Academic Affairs will provide guidelines regarding the process on how departments should administer Credit by Examination or cumulative assessment. Departments intending to offer opportunities for Credit by Examination or cumulative assessment are responsible for ensuring that examination/assessment dates are well publicized, so that students wanting to take the examinations/assessments receive adequate notice.

12.0 Registration and fees. Students will be registered for a Credit by Examination section of the course created specifically for this purpose. Variable unit courses should specify how many units are being awarded. Students who take the examination or cumulative assessment must pay a fee for service equal to the usual per unit enrollment fees for the course, but exclusive of any fee-based supplies. Fees for credit by exam are non-refundable. (Title 5, 55050 (h))

13.0 The maximum number of units awarded by Credit by Examination or cumulative assessment shall be limited to 15 units per SRJC student record.

Special Provisions for Students under High School Articulation Agreements

14.0 In the case where high school course articulation with a district course exists under formal agreement, district faculty may designate high school faculty to proctor Credit by Examination or cumulative assessment and provide grade recommendations. Completed student exams and/or other documentation related to cumulative assessment of student

course competencies are submitted to appropriate district faculty. The content of the exam or cumulative assessment, grade determination, and decision to award college credit, however, remains with and is the responsibility of the district faculty. High school students under articulation completing such examinations or other cumulative assessments, must have current applications and concurrent enrollment forms on file with the District in order for grades to be transcripted.

Not withstanding the Credit by Examination policy, high school students under articulation agreements completing examination or other cumulative assessment proctored by a high school teacher designated by the college faculty, are governed by the following special provisions that apply only to this articulation:

14.1 Students are exempt from the fees outlined in section 12.0;

14.2 Students are exempt from any other fees associated with Credit by Examination or cumulative assessment;.

14.3 Students are exempt from the student health fee.

Procedure 3.16P, Reviewed January 2012

COURSES CURRENTLY AVAILABLE FOR CREDIT BY EXAMINATION AT SRJC:

Discipline	Course Numbers
Agriculture	AGRI 20
Anatomy	ANAT 58, 140
Animal Science	ANSCI 20
Applied Technology	APTECH 43
Astronomy	ASTRON 4
Automotive	AUTO 80
Biology	BIO 10
Business Bookkeeping	BBK 50
Business General	BGN 71, 81, 201, 203
Child Development	CHLD 110.1, 110.2
Computer Studies	CS 50A, 57.11, 60.11A, 70.11A, 74.11, 74.21A, 74.21B, 80.15, 82.21A
Culinary	CUL 250, 252.3
Diesel & Equipment Technology	DET 179, 181
Fire Technology	FIRE 71, 77
Floristry	FLORS 83A
Food & Nutrition	FDNT 10, 62

Discipline	Course Numbers
French	FREN 1
Geography	GEOG 3
Geographic Information Systems	GIS 40
German	GERM 1
Health Care	HLC 160
Hospitality	HOSP 50, 80
Industrial Education	IED 190
Library & Information Resources	LIR 10
Machine Tool Technology	MACH 51A
Mathematics	MATH 1A
Music	MUSC 2A, 3A
Nursing	NR 74.2
Nursing (Vocational)	NRV 51L
Physiology	PHYSIO 1
Spanish	SPAN 1
Water Treatment	WTR 110, 120

Note: The Credit by Exam list is subject to change. Contact the office of the Dean of Curriculum and Educational Support Services for the most current information:
(707) 524-1554.

DIRECTORY INFORMATION

Directory information may be made available to newspaper, magazine, radio, or television media and prospective employers for the purpose of reporting a student's participation in officially recognized college and sports activities, or the student's receipt of college degrees and awards. Directory information may include the student's name, e-mail address, class schedule, and total units enrolled. The names and addresses of students may be provided to public or private schools or colleges for purposes directly related to the academic or professional goals of the institution.

A student who does not wish that any, or all, of the information be made available without prior consent, must indicate such on the admission application or file a student data change form in the Admissions and Records Office at the time of enrollment or before the beginning of classes, requesting that directory information be withheld.

DISTRICT REGULATIONS

DRUG-FREE CAMPUS

Santa Rosa Junior College is fully committed to achieving a drug and alcohol free environment for its students and employees. The Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act Amendments of 1989 require that, as a condition of receiving funds or financial assistance under any federal program, SRJC must create and maintain a drug-free environment and implement a program to prevent the unlawful possession, use, or distribution of drugs and the abuse of alcohol by its students and employees.

Policy 6.8.4, reviewed January 2012

HEALTH RISKS OF ALCOHOL USE

There are long-term health risks associated with drinking over time, including damage to the heart, liver, and brain, but the vast majority of health risks occur over the course of a single evening. A college-aged student has a much higher risk of an alcohol-related injury caused by a car crash, slipping or falling, getting into a fight, etc. than developing cirrhosis of the liver. At least 50% of sexual assaults among college students involve alcohol consumption by the perpetrator, the victim or both. For students who choose to drink alcohol, actions such as limiting the number of drinks, sticking with the same groups of friends, and having a designated driver can reduce the chance of harm.

Contact Student Health Services at (707)527-4445 for more information about the health risks of other drugs and harm reduction strategies. Student Health Services provides confidential individual counseling for students who have concerns about their use of alcohol or other substances, and can provide referrals to additional substance abuse community resources.

REGULATIONS

In addition to being a violation of the state and federal laws, the possession and/or use of alcohol or illegal controlled substances on the SRJC campuses, off-campus centers, and college-sponsored activities are forbidden by college regulations. SRJC is concerned with each student's welfare who attends the College.

This information is provided to students to make them aware of both the possible penalties that can result in regulation infractions of college rules, and to inform them that if they have a drug or alcohol-related problem they are encouraged to have a confidential visit with a college counselor or a health services staff member.

POSSIBLE DISCIPLINARY ACTIONS

The following forms of discipline may be imposed on a student or employee who is found guilty of violations of college regulations. Such discipline may include reprimand, probation, suspension or expulsion, and/or job termination. For specific information concerning the discipline process, contact the Dean of Students (Santa Rosa) at (707)527-4573 and Dean of Student Services (Petaluma) at (707)778-3930 or the college Human Resources Office at (707) 527-4688.

Note: The federal government mandates that Santa Rosa Junior College provide alcohol and controlled substance information and referral information to the staff and students annually.

SMOKING

Smoke-Free Environment Policy
The Sonoma County Junior College District is a Smoke-Free Environment.

The District promotes a safe and healthful atmosphere for students, faculty, staff and visitors on its campuses, centers and other off-campus sites by reducing the health risks associated with tobacco smoke and related products. Therefore, the District is a tobacco- and smoke-free environment.

Smoking of any kind, including use of e-cigarettes or electronic cigarettes, and all uses of tobacco are prohibited on all property and in all indoor and outdoor spaces owned, leased, licensed, or otherwise controlled by the District, and in all District-owned vehicles.

The District offers information and referrals intended to assist students and staff who wish to quit smoking. For more information about smoking cessation options, contact Student Health Services at (707) 527-4445, or Environmental Health and Safety at (707) 527-4803.

Implementation of the District Smoke-Free Environment Policy will be the shared responsibility of every student, faculty member, staff person and visitor; additionally, the Sonoma County Junior College District Police shall enforce all state, county and city ordinances that prohibit smoking on or near District property.

Policy/Procedure 6.8.6/6.8.6P

LOST AND FOUND

General Information

To inquire about most lost items on the Santa Rosa Campus, contact or visit the Student Life, Equity & Engagement Programs Information Desk, located on the first floor of the Bertolini Student Center (400 Burbank Circle). Their hours are 8:00 AM-5:00 PM, Monday-Friday and they can be reached by phone at 527-4424. For a list of items maintained by District Police, see below. For all other locations, District Police (527-1000) will collect lost and found items and will hold property at their office for a minimum of 90 days (prior to turning it over to Student Affairs on the Santa Rosa Campus).

Items maintained by Student Life & Engagement Programs:

- Books, notebooks, and planners
- Sunglasses, prescription eyewear
- Backpacks
- Clothing, wallets and purses
- Keys
- Jewelry
- Identification cards and miscellaneous papers

Items maintained by District Police:

It is the intent of the District Police to maintain items with documented serial numbers and items deemed significant in value. Our District Police dispatch center is open 24 hours a day and can be reached at (707) 527-1000.

- Cell phones
- Computers and equipment
- Radios (mp3 players, ipods, etc)
- Medications
- Bicycles

Items not accepted: Soiled clothing, water bottles, coffee travel mugs or any other item posing a health risk.

Unclaimed Items

Items are maintained for 90 days before disposition. After 90 days unclaimed items are taken to the Student Affairs Office for sale/auction. Data sensitive materials will be destroyed if unclaimed. When claiming an item, a valid California Photo ID or SRJC Student ID is required.

If an item is found on a Santa Rosa Junior College campus you may turn it over to the Student Affairs Office. Student Affairs may then determine if the item(s) warrant a turnover to District Police.

STUDENT PARKING: SRJC PARKING AND TRANSPORTATION PROGRAM: PARKING LOT ADJUSTMENTS CLOSE TO CAMPUS

Continued use of nearby lots is anticipated:

1. **Mendocino Lot:** The existing 240 student parking spaces can be utilized during day and evening hours. There are staff parking spaces along the south curb of the entrance to the Mendocino Lot.
2. **"B" Lot (Bailey, Barnett, Baker, Shuhaw, Bussman):** B Lot will remain a staff reserved lot from 7:00 am until 7:00 pm. At 7:00 pm, B Lot will be opened up to students on a first-come, first-served basis.
3. **All Staff Lots and All Remaining Student Lots:** There will be no other adjustments in assignment or use.

Parking and Transportation Alternatives

1. **Centralized Bicycle Racks:** The College has expanded its 538 bicycle capacity racks to 750 and centralizes their locations in three or four easily accessible areas. The new "inverted U" bike racks are being installed in several phases. Bicyclists are not allowed to ride their bikes on campus pedestrian pathways due to the increasing safety issues related to pathway congestion, construction, etc. Bikes can only be ridden on roadways and in parking lots.
2. **Bus Transit:** Sonoma County Transit, Santa Rosa City Bus and Petaluma Transit are all free to SRJC students with a validated ID card.

FEES AND FINES

The regular semester permit parking fees will remain at current levels: $60 each fall and spring semester and $4 per daily use.

PUBLIC TRANSIT ACCESS

The College encourages students, staff, and faculty to access the College via public transit.

PARKING MACHINES

Daily permits from the parking machines are available to anyone. Visitors to both campuses should purchase a daily permit and place it on the vehicle dashboard.

PARKING FOR PERSONS WITH DISABILITIES

Persons who have a valid DMV disabled placard or plates and a valid SRJC parking permit, may park in any of the disabled parking spaces on district property. These spaces are designated by the white and blue international symbol of access.

TOWING POLICY

As established by the Board of Trustees in accordance with C.V.C. 21113a, tow-aways will be in effect when a vehicle is parked in front of a fire hydrant or where the passage of emergency vehicles is hindered and where entrances or exits are blocked. Vehicles may also be subject to tow-away when in violation of any traffic or parking regulation of any Santa Rosa Junior College campuses.

ADDITIONAL SERVICES

If your vehicle is parked on campus and will not start, the District Police, when possible, will provide jumper cables and the use of the police vehicle to assist you.

BICYCLES

No permit is required. Bicycles must be parked in racks located at various locations on campus. Any bicycle chained to a ramp, pole, tree, etc., will be impounded in the District Police Department in the Pedroncelli Center. No bicycles are allowed in hallways of buildings by order of the Fire Department.

Policy 7.12,revised June 2014

ANIMAL CONTROL & SERVICE ANIMALS

No animals, including animals leashed, shall be brought onto District property. This restriction includes animals confined in any vehicle parked within the College boundaries. The following are exceptions:

1. Service animals.
2. Emotional support animals as an authorized accommodation only
3. Animals used in the instructional program.
4. Animals boarded/used at the Shone Farm.

Owners of animals found on campus in violation of this regulation may be cited and/or have their animals impounded by authorized College officials.

Policies 7.17 and 7.19, Revised January 2013

SERVICE ANIMALS

It is the policy of the Sonoma County Junior College District to permit students, faculty, staff and community visitors with disabilities to be accompanied by service animals in District facilities and on District campuses. The purpose of this policy is to ensure that individuals with disabilities can participate in and benefit from District services, programs and activities, and to ensure that the District does not discriminate on the basis of disability.

A disability is defined as a physical or mental impairment that substantially limits one or more major life activities of an individual; a record of having such an impairment, or being regarded as having such an impairment.

Service animals are defined as dogs, or in limited specific circumstances, miniature horses, that are individually trained to do work or perform tasks for people with disabilities. The work or task must be directly related to the person's disability.

Use of a service animal in public areas of campus facilities and property is allowed. When it is not obvious what service an animal provides, college officials may ask only two questions: (1) is the dog a service animal required because of a disability, and (2) what work or task has the dog been trained to perform.

Enrolled students wishing to be accompanied to class by a service animal on a regular basis as an accommodation are encouraged to request authorization from the Disability Resources Department. Qualified students will be provided with an official Disability Resources Department Authorization for Academic Accommodation letter to present to their instructors indicating the authorized use of a service animal in class.

Enrolled students working as a service dog trainer must obtain an authorization letter from the Dean, Student Conduct, Disabled Students Programs & Services, or designee, in order to bring the dog to class. All service animal procedures must be abided by for dogs-in-training. Dogs-in-training must wear an identifying vest.

It is unlawful for any person to knowingly and fraudulently represent himself or herself to be the owner or trainer of a service animal.

Policy 7.17/Procedure7.17P, Revised March, 2015

TELEPHONE MESSAGES

The College is not prepared to deliver telephone messages except in an emergency, such as sudden illness or accident. Please contact District Police at (707) 527-1000.

FACULTY MEMBERS' OBLIGATION TO STUDENT

The key element of any educational program is the classroom experience and the manner in which both parties, student and faculty member, cooperate and work with one another. Faculty members must also serve students with essential services in allied areas, such as the library, counseling, or disability resources. The faculty members' obligation to students includes the recognition that students deserve consistent, courteous, and professional treatment at all times. While classroom and allied faculty situations vary, and some faculty must perform both roles; faculty members must follow certain basic guidelines that will enable students to function at their best. The same principles hold true for faculty members with non-teaching assignments, including counselors, librarians, and disability specialists. The following specific obligations are excerpted from the faculty job description in Article 7 of the AFA contract, and are hereby incorporated into district policy. (The students' responsibilities are outlined in Section 8.2 Students Rights and Responsibilities, and are further defined in each instructor's syllabus).

TEACHING FACULTY MEMBERS

- Start and end class at the scheduled time, and hold final exams during the scheduled time, except as requested by individual students under extraordinary circumstances.
- Issue a syllabus for each class, including at least the following: course description and organization, following the approved course outline; reading and lecture schedule; assignment structure; and written grading policy.
- Instruct or supervise students during all scheduled lecture, laboratory, clinical, performance, and coaching sessions of their assignment unless ill, unavoidably detained, or engaged in approved departmental or college business of a priority nature. Start and end classes on time.
- Prepare materials for instructional use, including handouts, presentations, exams, quizzes, and classroom and homework assignments. Update materials in response to major advances in the field of study.
- Confer with students on academic matters and advise students in matters related to the discipline and to career goals as appropriate.
- Solicit and evaluate students' feedback about their experience in the class.
- Refer students to counselors and other college resources as appropriate.
- Assist in providing authorized accommodations for students with disabilities.
- Maintain office sessions as posted; meet with students during established office sessions and by appointment when arranged by specific student request.
- Assess student work and provide evaluation of that work to students in a timely manner, particularly following midterms and prior to final dates for dropping or withdrawing.
- Provide alternative assignments or activities to field trips and other group activities that are not identified by date and time in the published Schedule of Classes. (Exceptions: team and performance courses, such as those in P.E., Theatre Arts, Music, and Communication Studies.)
- Determine all grades according to published grading policy.
- Post examination grades to enable each student to identify only his/her own scores.
- Complete midterm reports and final grades to meet established college deadlines, and maintain attendance and grading records as required by the Education Code.

NON-TEACHING FACULTY MEMBERS

The following obligations are applicable when they correspond to allied faculty job descriptions.

- Confer with students and advise students in matters related to their education and careers.
- Select or develop handouts, presentations, and other materials for student use.
- Prepare written materials and instruction to support student use of services.
- Meet with students at established times, or by appointment, as a part of their regular duties.
- Confer with students on academic matters, career opportunities, and other appropriate matters.
- Provide liaison with other programs.
- Develop services and collections related to curriculum, e.g., library collections.
- Provide instruction related to the faculty member's assignment.
- Refer students to counselors and other college resources as appropriate.
- Solicit and evaluate student feedback.

Title 5, Section 55002; Policy 3.9, December 2008

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974 (FERPA)

ANNUAL NOTIFICATION TO STUDENTS

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights are:

1. The right to inspect and review students' education records within 45 days of the day Santa Rosa Junior College (SRJC) receives a request for access. Students should submit to the supervisor (or appropriate official) written requests that identify the record(s) they wish to inspect. SRJC's official will make arrangements for access and notify students of the time and place where their records may be inspected. If the records are not maintained by the college official to whom the request was submitted, that official shall advise students of the correct official to whom the request should be addressed.
2. The right to request the amendment of students' education records that students believe is inaccurate or misleading. Students may ask SRJC to amend a record that they believe is inaccurate or misleading. They should write the SRJC official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If SRJC decides not to amend the record as requested by students, SRJC will notify students of the decision and advise students of their right to a hearing regarding the request for amendment. Additional information about the hearing procedures will be provided to students when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in students' education records, except to the extent that FERPA disclosure without consent. One exception, that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is defined as a person employed by SRJC in an administrative, supervisory, academic, or support staff position (including law enforcement unit and health staff); a person or company with whom SRJC has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. Upon request, SRJC discloses education records without consent to officials of another school in which students seek or intend to enroll.
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by SRJC to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office

U.S. Department of Education
400 Maryland Avenue, SW
Washington, D.C. 20202-5920

Directory information may include, but is not limited to: student's name, e-mail address, class schedule, and total units enrolled.

Policy 8.2.9, November 2013

GENDER EQUITY

Santa Rosa Junior College is committed to a college culture that supports the access and success of all students, inclusive of the full spectrum of gender identity and expression, and works to eliminate any bias or stereotyping on this basis. Please see the sections on Title IX and the Presidential Advisory Committee for LGBTQ issues for further information.

Equidad de género
Santa Rosa Junior College está comprometido en una cultura universitaria que apoya el acceso y el éxito de todos los estudiantes, incluido el espectro completo de identidad y expresión de género, y trabaja para eliminar cualquier prejuicio o estereotipo con relación a este tema. Para mayor información, por favor consulte las secciones en el Título IX y el Comité Asesor Presidencial para asuntos de LGBTQ.

GRADE CHANGES

After a grade has been issued, only the instructor has the authority to change the grade.

The determination of the student's grade by the instructor is final in the absence of mistake, fraud, bad faith, or incompetence.

Student requests for grade changes must be initiated no later than two years from the date the grade was posted.

The instructor must complete and submit an Instructor Change of Grade form to the Admissions, Records and Enrollment Development Office for grade correction on the student's academic record.

Students filing a complaint based on a grade appeal must follow the process as outlined in Student Complaint and Grievance Procedure.

Policy 3.10 and Procedure 3.10P, Revised March 2013

GRADE POINT AVERAGE (GPA)

GPA is computed by dividing the total units attempted (including units for courses repeated) into the total grade points. "P", "NP", "CR," "NC," "I," and "W" are not included in the total course units attempted. For example, a student who earns a grade of "A" in six units, "B" in three units, "C" in three units, "D" in three units, and "F" in two and one-half units would have a GPA of 2.40.

The computation is shown here:

Units	Grade	Grade Points
6.0 Units	A x 4 =	24.0 grade points
3.0 Units	B x 3 =	9.0 grade points
3.0 Units	C x 2 =	6.0 grade points
3.0 Units	D x 1 =	3.0 grade points
2.5 Units	F x 0 =	0.0 grade points
17.5 Units		= 42.0 grade points
	42 grade points/17.5	=2.40 GPA

The GPA for the overall number of units attempted and overall number of grade points can be similarly computed and is known as the Cumulative GPA. Units on file from other institutions are used in calculating the overall GPA.
In calculating students' degree applicable grade point averages, grades earned in non-degree applicable courses shall not be included.

Policy 3.10 and Procedure 3.10P, Revised April 2016

GRADE REPORTS

Instructors post midterm grades for full semester courses by the end of the eleventh week of each semester (S=satisfactory progress; U=unsatisfactory progress). Final grades shall be posted no later than three to five business days after the end of each semester. Students may view their midterm and/or final grades via the Student Portal. Grade reports are not mailed.

GRADING POLICY

1. Grades from a grading scale shall be averaged on the basis of the point equivalencies to determine a student's grade point average (GPA) using only the following evaluative symbols:

Credit Courses

SYMBOL	DEFINITION	GRADE POINT
A	Excellent	4
B	Good	3
C	Satisfactory	2
D	Less than satisfactory	1
F	Failing	0

P (formerly CR)*	Pass (formerly Credit) -- C or better. Units awarded not counted in GPA.	0
NP (formerly NC)*	No Pass (formerly No Credit) -- Less than satisfactory or failing. (D or F) Units not counted in GPA.	0

*P/NP replaced CR/NC in fall 2009 Non Credit Courses

SYMBOL	DEFINITION	GRADE POINT
P	Pass	0
NP	No Pass -- Less than satisfactory or failing	0
SP	Satisfactory Progress toward completion of course	0

A. For credit courses, the P/NP (Pass/No Pass) grade option is limited to one course or 3 units per semester and subject to a maximum of 12 units for all semesters attended for those students with the following education goals:

1. Earn BA/BS after earning AA/AS
2. Earn BA/BS without earning AA/AS
3. Earn AA/AS without Transferring
4. Earn a Vocational Degree
5. Earn a Vocational Certificate
6. Improve basic skills
7. Undecided Goal

Courses in which only the P/NP grade option is available are exempt from the above restrictions.

B. There is no P/NP unit restriction for those students with the following education goals:

1. Personal interest
2. Formulate career plans/goals
3. Start a New Career
4. Advance in Current Career
5. Maintain certificate or license
6. Complete HS credits or GED

Students must declare their education goal at the time of application and registration. It will be noted in the college catalog that most transfer institutions limit the number of CR/NC or P/NP grades that they will accept.

2. The Board of Trustees has authorized the use of the following non-evaluative symbols:

Symbol	Definition
I	Incomplete: If a student is unable to complete academic work for unforeseeable, emergency or justifiable reasons by the end of the term, he/she may petition to have an "I" symbol recorded on their academic record. The condition(s) for the removal of the "I" must be stated by the instructor in a written record given to the student and submitted to the Admissions, Records and Enrollment Development Office for approval.
IP	In progress: The "IP" symbol shall be used only in those courses which extend beyond the normal end of an academic term. The assignment of an evaluative symbol (grade) must await completion of the work "in progress." The "IP" symbol shall remain on the student's permanent record in order to satisfy enrollment documentation. The appropriate evaluative symbol (grade) and unit credit shall appear on the student's permanent record for the term in which the course is completed. If a student enrolled in an "open-entry, open-exit" course is assigned an "IP" at the end of an attendance period and does not re-enroll in that course during the subsequent attendance period, the appropriate faculty will assign an evaluative symbol (grade) to be recorded on the student's permanent record of the course. The "IP" shall not be used in calculating grade point averages.
RD	Report Delayed: The "RD" symbol may be assigned by the Admissions, Records and Enrollment Development Office, and only when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible. "RD" shall not be used in calculating grade point averages.
W	Withdrawal: No notation ("W" or other) shall be made on the academic record of the student who withdraws before the first census date of the course. For full-semester courses, this is the last day of the third week of instruction or 20% of the course for short-term courses (including summer courses). A "W" symbol shall be recorded on the academic record of the student who withdraws from a semester length course after the end of the third week of instruction through the last day of the thirteenth week of instruction or 60% of the course for short-term courses (including summer courses). The academic record of a student who remains in a class beyond the withdrawal (W) deadline must reflect a symbol other than a "W." The appropriate faculty shall be notified of all withdrawals. The "W" shall not be used in calculating grade point averages, but excessive "W"'s shall be used as factors in probation and dismissal procedures.

EW	"Excused withdrawal" occurs when a student is permitted to withdraw from a course(s) due to extenuating circumstances beyond the control of the student which affected his or her ability to complete a course(s). The student must submit a petition to the Admissions, Records and Enrollment Development Office to request an excused withdrawal and must include documentation of the extenuating circumstance. Upon approval, an excused withdrawal symbol of "EW" will be recorded on the student's academic record. Extenuating circumstances may include but are not limited to the following: • verifiable accidents; • chronic or acute illness of student or immediate family member; • death of an immediate family member; • job transfer outside the geographical region; • the student is the subject of an immigration action; • an incarcerated student in a California state prison or county jail is released from custody or involuntarily transferred before the end of the term; • natural disasters directly affecting the student; • other verifiable circumstances making course completion impracticable. In the case of an incarcerated student, an excused withdrawal cannot be applied if the failure to complete the course(s) was the result of a student's behavioral violation or if the student requested and was granted a mid-semester transfer. Excused withdrawals shall not be counted in progress probation and dismissal calculations, toward the permitted number of withdrawals or counted as an enrollment attempt for course repetition.
MW	"Military withdrawal" occurs when a student who is a member of an active or reserve United States military service receives orders compelling a withdrawal from courses. A student must submit a petition to the Admissions, Records and Enrollment Development Office, and upon verification of such orders, a withdrawal symbol of "MW" will be recorded on the student's academic record. Military withdrawals shall not be counted in progress probation and dismissal calculations, toward the permitted number of withdrawals, or counted as an enrollment attempt for course repetition.

3. Degree applicable Grade Point Averages

In calculating students' degree applicable grade point averages, grades earned in non-degree applicable courses shall not be included.

4. Posting Grades

The deadline to submit final grade and positive attendance rosters is the day prior to end-of-semester processing, as determined by the Academic Calendar Committee. The final grade submission deadline is a minimum of seven (7) calendar days from the last day of final exam week. However, for student success, the recommended best practice is to submit grades as soon as possible.

5. Changing Grades

The instructor of the course shall determine the grade to be awarded to each student.

A. The instructor of the course shall determine the grade to be awarded to each student.

B. The determination of the student's grade by the instructor is final in the absence of mistake, fraud, bad faith, or incompetence. “Mistake” may include, but is not limited to, errors made by an instructor in calculating a student’s grade and clerical errors. “Fraud” may include, but is not limited to, inaccurate recording or change of a grade by any person who gains access to grade records without authorization.

C. The instructor must complete and submit an Instructor Change of Grade form to the Admissions, Records and Enrollment Development Office for grade correction on the student’s academic record.

D. Students filing a complaint based on a grade appeal must follow the process as outlined in Student Complaint and Grievance Procedure.

6. Security of Grade Records

A. The District shall implement security measures for student records that assure no person may obtain access to student grade records without proper authorization. These measures shall be installed as part of any computerized grade data storage system.

B. The measures implemented by the District shall include, but not necessarily be limited to, password protection for all student grade databases, locking mechanisms for computer stations from which student grade data bases can be viewed, and strict limits on the number of persons who are authorized to change student grades.

C. Persons authorized to change grades shall be designated by the Dean of Admissions, Records & Enrollment Development. No more than five District employees may be authorized to change student grades. Only student grades. Only regular full-time employees of the District may be authorized to change grades. Student workers shall not have access to grade records, and student workers may not change grades at any time.

D. Any person who discovers that grades have been changed by someone other than the persons authorized to do so shall notify the Dean of Admissions, Records & Enrollment Development immediately. The Dean shall immediately take steps to lock the grade storage system entirely while an investigation is conducted.

E. If any student’s grade record is found to have been changed without proper authorization, the District will notify 1) the student; 2) the instructor who originally awarded the grade; 3) any educational institution to which the student has transferred; 4) the accreditation agency; and 5) appropriate local law enforcement authorities.

F. Whenever a grade is changed for any reason, corrected transcripts will be sent to any educational institution to which a student has transferred.

G. Any student or employee who is found to have gained access to grade recording systems without proper authorization, or who is found to have changed any grade without proper authority to do so, shall be subject to discipline in accordance with District policies and procedures.

H. Any person who is found to have gained access to grade recording systems without proper authorization, or who is found to have changed any grade without proper authority to do so, shall be reported to the appropriate law enforcement agency having jurisdiction over the college where the incident occurred.

NON-DISCRIMINATION STATEMENT

The Sonoma County Junior College District does not discriminate on the basis of race, religious creed, color, national origin, ancestry, ethnic group identification, physical disability, mental disability, medical condition, genetic condition, marital status, sex, gender, gender identity, gender expression, genetic information or sexual orientation in any of its policies, procedures or practices; nor does the District discriminate against any employees or applicants for employment on the basis of their age. This non-discrimination policy covers admission, access and treatment in District programs and activities--including but not limited to academic admissions, financial aid, educational services and athletics--and application for District employment.

POLÍTICA DE NO DISCRIMINACIÓN

El Distrito del Colegio del Condado de Sonoma no discrimina por motivos de raza, religión, credo, color, origen nacional, ascendencia, grupo étnico, discapacidad física, discapacidad mental, condición médica, condición genética, estado civil, sexo, género, identidad de género, expresión de género, información genética u orientación sexual en ninguna de sus políticas, procedimientos o prácticas; ni discrimina contra cualquier empleado o solicitantes de empleo por motivos de su edad. Esta política de no discriminación cubre la admisión, el acceso y el tratamiento en los programas y actividades del Distrito – que incluyen, pero no se limitan, a las admisiones académicas, la ayuda financiera, los servicios educativos y el atletismo y la solicitud de empleo al Distrito. El Distrito del Colegio del Condado de Sonoma es una institución que ofrece igualdad de oportunidades.

PROBATION, DISMISSAL, READMISSION, AND RENEWAL

STANDARDS FOR PROBATION 1 AND PROBATION 2

Academic Probation

A student who has attempted at least 12 semester units as shown by the official academic record shall be placed on Academic Probation 1 if the student has earned a cumulative GPA at or below 1.99 in all units which were graded (CR/NC and P/NP grades are not counted).

Progress Probation

A student who has enrolled in a total of at least 12 semester units as shown by the official academic record shall be placed on Progress Probation 1 when the percentage of all units in which a student has enrolled and for which entries of "W," "I," "NC," and "NP" are recorded reaches or exceeds fifty percent (50%).

Students placed on Probation 1 and unable to improve their status after one semester will be moved to Probation 2.

Removal from Probation

A student on Academic Probation shall be removed from probation when the student's cumulative GPA is 2.00 or higher. A student on Progress Probation shall be removed from probation when the percentage of units for which entries of "W," "I," "NC," and "NP" are recorded drops below fifty percent (50%) of all units in which a student has enrolled.

Standards for Dismissal

1. A student on Academic Probation 2 shall be subject to dismissal if the student earns a cumulative GPA of 1.99 or below in all units attempted.
2. A student placed on Progress Probation 2 shall be subject to dismissal if the percentage of units in which the student has been enrolled for which entries of "W," "I," "NP," and "NC" are recorded exceeds fifty percent (50%).

Qualification for Readmission following Academic/Progress Dismissal

A dismissed student may be readmitted and returned to Probation 2 status after fulfilling one of the following conditions:

1. Completion of all of the following:

   A. The appropriate workshop identified by the Counseling Department; and

   B. Meet with a Counselor to develop a Student Education Plan (SEP) by the stated deadline. See website for deadlines and details: **https://counseling.santarosa.edu/academic-standings (https://counseling.santarosa.edu/academic-standings)**

OR

2. An absence of one or more semesters

Satisfactory Progress after Dismissal

Following dismissal and readmission, students who maintain satisfactory academic progress by earning a semester GPA of 2.0 or greater each semester, shall remain on Academic Probation 2 until achieving a cumulative GPA of 2.0 or better.

Following dismissal and readmission, students who maintain satisfactory progress by completing more than 50% of their units each semester, shall remain on Progress Probation 2 until the overall cumulative level of completion reaches 51% or above.

Process

At the end of each semester, the Counseling Department will request from the Information Technology Department a list of students who have automatically qualified for Probation 1, Probation 2, or Dismissal status. The Counseling Department will notify these students, along with outlining the rationale behind their status and advising them on their next steps. The students listed must meet with a counselor if they want to enroll in more than 8.5 units the following semester.

Dismissal status shall be recorded on the student academic record at the conclusion of each term.

Academic Renewal

Students may file with the Office of Admissions, Records & Enrollment Development an Academic Renewal Form in order to have substandard Santa Rosa Junior College grades of “D” or “F” excluded from grade point average calculations. The maximum amount that may be adjusted is a total of 24 units.

Upon approval, the student’s permanent academic record will be adjusted to indicate that the original grades will not be reflected in the grade point average. The courses will remain on the permanent record to provide a true and complete academic history.

Academic Renewal will be determined by one of the following criteria:

1. Completion of 24 units at C (2.0 grade point average) level or above in all course work completed at any accredited institution after the semester(s) of substandard work.
2. The passage of 4 (four) years since the substandard work was recorded.
3. Demonstration that previously recorded work is not reflective of present ability. Such evidence might include, but is not limited to, documented proof of experience, awards, degrees, and honors or extenuating circumstances that contributed to the substandard grades.

Progress Renewal

Students may file with the Office of Admissions, Records & Enrollment Development a Progress Renewal Form in order to have previously recorded "W," "I," "NP," and "NC" marks completed at Santa Rosa Junior College excluded from the calculation of Progress Probation and Dismissal. The maximum amount that may be adjusted is a total of 24 units.

Upon approval, the student's permanent academic record will be adjusted to indicate that the "W," "I," "NP," or "NC" will not be used to calculate progress. The courses will remain on the permanent record to provide a true and complete academic history.

Approval will be granted upon fulfillment of one of the following requirements:

1. The student:

A. Receives no "W," "I," "NP," and "NC" in two consecutive semesters following the receipt of "W," "I, "NP," and "NC";

B. Completes a minimum of 4 semester units; and

C. Earns a cumulative GPA of 2.0 or better.

OR

2. The passage of four years since the "No Credits", "No Passes" and/or "Withdrawals" were recorded.

Policy 8.2.6 /Procedure 8.2.6P, Pending August 2017 Board approval

REPETITION OF COURSES

The procedures for repetition of courses are applicable in any of the following cases:

I. REPEATABLE COURSES

Repeatable courses shall be identified and listed in the catalog with specific repeat codes as approved by the Curriculum Committee.

The following types of courses shall be deemed repeatable:

1. Courses for which repetition is necessary to meet the major requirements of CSU or UC for completion of a bachelor's degree. The District shall retain supporting documentation that verifies that the repetition is necessary to meet the major requirements of CSU or UC for completion of a bachelor's degree. The supporting documentation must be retained by the District as a Class 3 record;
2. Intercollegiate athletics courses in which a student athlete is enrolled to participate in an organized competitive sport sponsored by the District, or a conditioning course which supports the organized competitive sport; and
3. Intercollegiate academic or vocational competition courses designed specifically for participation in non-athletic competitive events between students from different colleges and sanctioned by a formal collegiate or industry governing body. The participation in the event must be directly related to the course content and objectives. Enrollment in these courses is limited to no more than four times, even if the student receives a substandard grade or "W" during one or more of the enrollments.

When a course is repeated pursuant to these procedures, the grade received each time shall be included in calculating the student's grade point average.

II. MULTIPLE AND OVERLAPPING ENROLLMENTS

1. Students may not enroll in two or more sections of the same credit course during the same term.

2. For short courses, students may enroll in multiple sections of the same credit course in a given term so long as the enrollments do not overlap.

III. NON-REPEATABLE COURSES

Course enrollments in non-repeatable courses shall be limited to three enrollments total in the same course inclusive of all evaluative and non-evaluative symbols received. Students can only repeat courses designated as "non-repeatable" if they meet one of the criteria listed below. However, students may receive a symbol and/or earn a substandard grade of D, F, NP, NC no more than three times in the same course. The three enrollment limitation in non-repeatable courses is inclusive of any combination of W, D, F, NP, or NC.

IV. COURSE REPETITION TO ALLEVIATE SUBSTANDARD ACADEMIC WORK

1. Students may repeat a course designated as a non-repeatable course in an effort to alleviate substandard academic work. All courses taken at Sonoma County Junior College District for which substandard academic performance is recorded (D, F, NC, NP), may be repeated twice (three enrollments total).
2. Students who have received a substandard grade in a repeatable course may not retake the course beyond the maximum repetitions permitted for such course.
3. When a student has repeated courses to alleviate substandard academic work, the first two substandard grades may be excluded in computing the student's grade point average (GPA). However, the permanent academic record shall be annotated in such a manner that all work remains legible, ensuring a true and complete academic history.
4. In determining transfer of a student's credits, Sonoma County Junior College District shall honor similar, prior course repetition actions by other accredited colleges and universities.

V. COURSE REPETITION DUE TO SIGNIFICANT LAPSE OF TIME

Stuodents may petition the Admissions, Records and Enrollment Development Office to repeat a course one time due to a significant lapse of time (at least three years) since a satisfactory passing grade was received in order to satisfy a District recency requirement or the recency requirement of another institution of higher education to which the student seeks to transfer.

Upon completion of the repeated course, the previous grade and units shall be disregarded in computing the student's GPA. All coursework on the student's permanent academic record shall be annotated in such a manner that all work remains legible, ensuring a true and complete academic history.

VI. COURSE REPETITION DUE TO EXTENUATING CIRCUMSTANCES

Students may petition the Admissions, Records and Enrollment Development Office to repeat a course whether the grade was substandard, passing or a withdrawal. 'Extenuating circumstances' are defined as verified cases of accidents, illness, or other circumstances beyond the control of the student. Upon completion of the repeated course, the previous grade and units awarded shall be disregarded in computing the student's GPA. All coursework on the student's permanent academic record shall be annotated in such a manner that all work remains legible, ensuring a true and complete academic history.

VII. STUDENTS WITH DISABILITIES

The District shall permit a student with a disability to repeat a special class for students with disabilities any number of times based on an individualized determination by the Disability Resources Department that such repetition is required as a disability-related accommodation for that particular student for one of the reasons specified below:

a. When continuing success of the student in other general and/or special classes is dependent on additional repetitions of a specific special class; or

b. When additional repetitions of a specific special class are essential to completing a student's preparation for enrollment into other classes; or

c. When the student has a student educational contract which involves a goal other than completion of the special class in question and repetition of the course will further achievement of the goal.

Students must submit a petition to the Admissions, Records and Enrollment Services Office for approval. All grades and units received shall be counted in calculating the student grade point average.

VIII. WORK EXPERIENCE

Students may earn up to a total of 16 semester units combined in all types of Cooperative Work Experience Education subject to the following limitations:

a. A maximum of six semester units may be earned during each semester or summer term in general work experience education.

b. A maximum of eight semester units may be earned during each semester or summer term in occupational work experience education.

c. All grades and units received each time shall be counted in calculating the student grade point average.

For information on Academic Renewal without Course Repetition, see Academic Renewal

IX. COURSE REPETITION AS A RESULT OF LEGAL MANDATES

Students may repeat a course determined to be legally mandated by statute or regulation as a condition of paid or volunteer employment regardless of whether substandard academic work has been recorded. Such courses may be repeated for credit any number of times, provided the student submits documentation of the required legal mandates.

X. COURSE REPETITION AS A RESULT OF A SIGNIFICANT CHANGE IN INDUSTRY OR LICENSURE STANDARDS

Students may petition the Admissions, Records and Enrollment Development Office to repeat a course as a result of a significant change in industry or licensure standards such that repetition of the course is necessary for employment or licensure. Such courses can be repeated for credit any number of times provided the student submits documentation of the significant change in industry or licensure standards necessitating course repetition.

XI. ACTIVE PARTICIPATORY COURSES AND SIMILAR ACTIVITY GROUPS

Active participatory courses are those courses where individual study or group assignments are the basic means by which learning objectives are obtained. When two or more such courses have similar primary educational activities, they shall be identified and grouped into similar activity groups by the Curriculum Committee. Student enrollment in active participatory courses is limited to four enrollments within each identified similar activity group. This limitation applies even if a student receives a substandard grade or "W" during one or more of the enrollments.

Policy 8.1.16. and Procedure 8.1.16P, Revised May 2013

STUDENT COMPLAINT/GRIEVANCE

A student complaint may arise out of a decision or action reached or taken in the course of official duty by a member of the faculty, staff, or administration of the Sonoma County Junior College District (SCJCD). "Student" means a person who has been admitted to enroll at SCJCD (including non-credit courses) or is currently enrolled. The complaint may take one of three forms, described below: direct resolution, informal complaint or formal grievance. These complaint/grievance procedures are not intended to initiate disciplinary action against any member of the faculty, staff,

or administration, or to alter college policy. However, documentation collected during the process may be used as evidence in future legal action. Under no circumstances will the filing of an informal complaint or formal grievance result in retaliation by the party being grieved against or his/her department.

A complaint/grievance will only be permitted within thirty (30) instructional days into the semester that immediately follows the semester in which the alleged incident occurred. Summer Session is not included when making this determination, unless all parties agree. However, if the incident occurs during the Summer Session, the student will have thirty (30) instructional days into the semester following the Summer Session to file a complaint/grievance.

For cases involving harassment or discrimination, the complaint must be filed within one (1) year of the date of the alleged unlawful discrimination or within one (1) year of the date on which the complainant knew or should have known of the facts underlying the allegation of unlawful discrimination.

All necessary forms for these procedures can be found on the college website at **https://rightsresponsibilities.santarosa.edu/complaints-grievances (https://rightsresponsibilities.santarosa.edu/complaints-grievances)** and at the Student Life Office on either the Santa Rosa or Petaluma Campus.

RESPONSIBILITIES

Student/Grievant

- Review the policies and procedures relevant to the subject of the complaint/grievance.
- Understand what types of actions can be grieved.
- Understand the five types of grievances, and follow the correct process for each type of complaint.
- Maintain copies of all relevant materials and dated notes from all discussions.
- Consult with the Ombudsperson in order to receive correct information and support while going through a complaint or grievance process.

Instructor

- Create syllabi that follow the Course Outline of Record.
- Follow the syllabus, applying its rules to all students in the same manner. Avoid all changes that might be considered capricious.
- Become acquainted with issues of sexual harassment and discrimination in order to avoid any behaviors that might be interpreted as grievable.
- Keep dated records concerning any student complaint, including details of all meetings with the student.

Department Chair, Program Director, or Supervising Administrator

- Understand the policies and procedures of the College.
- Complete trainings at regular intervals in issues of sexual harassment and discrimination.
- Ensure that the student/grievant completes all forms required of these procedures, as necessary.
- Keep dated notes of all discussions relevant to the informal complaint or grievance.
- If requested, act as or name a facilitator acceptable for both parties.
- Verify/document that the complaint timeline was followed
- Forward information to the Supervising Administrator or Vice President with the proposed resolution.
- Inform the student of the determined resolution.
- Inform students of their right to appeal any prior decision.

TYPES OF COMPLAINTS AND GRIEVANCES

The process for filing and resolving informal complaints and formal grievances may differ depending on the area of concern.

Type I: Grade Appeals

Students may file a an informal complaint or grievance to appeal a grade, recognizing that no instructor may be directed to change a grade except in narrow circumstances authorized by Education Code. "When grades are given for any course of instruction taught in a community college, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetency, shall be final."

Type II: Sexual Harassment or Unlawful Discrimination

Santa Rosa Junior College will not tolerate unlawful discrimination or sexual harassment based on race, religious creed, color, national origin, ancestry, ethnic group identification, physical disability, mental disability, medical condition, genetic condition, marital status, sex, gender, gender identity, gender expression, genetic information or sexual orientation in any of its policies, procedures or practices. All complaints involving unlawful discrimination or sexual harassment should be directed to the Vice President of Human Resources & Title IX Coordinator (or designee), (707) 5247-4954. For more information, please visit **http://www.boarddocs.com/ca/santarosa/Board.nsf/goto?open&id=A5YP7B59CF46 (http://www.boarddocs.com/ca/santarosa/Board.nsf/goto?open&id=A5YP7B59CF46%C2%A0)**

Type III: Financial Aid

Decisions regarding rules and regulations associated with Financial Aid and Scholarships are directed to the Financial Aid Office in order to initiate the Financial Aid Appeal Process. The appeal form may be picked up in the Financial Aid Office on

either the Santa Rosa or Petaluma campus.

Type IV: Complaints Against Another Student

These complaints must go directly to the Vice President, Student Services.

Type V: Other Complaints

This category includes any informal complaint or formal grievance against a faculty, staff or administrator that does not fall within the descriptions of other types of complaints, including a complaint against a college policy or procedure, or against any action violating applicable local, state or federal laws.

DIRECT RESOLUTION, INFORMAL COMPLAINT & FORMAL GRIEVANCE PROCEDURES

Direct Resolution

- Any student who believes he/she has grounds for a complaint should make an attempt in good faith to resolve the problem with the faculty, staff or administrator who is the source of the complaint.
- Students in online classes may proceed through these procedures by email or teleconference.
- If the student is uncomfortable addressing the source of the complaint, he/she may consult with the Ombudsperson for advice. The Ombudsperson is a college employee who offers confidential, informal, independent, and neutral dispute resolution services to all Santa Rosa Junior College students by providing information, advice, intervention and referrals in an effort to resolve issues informally before they escalate to a Formal Grievance. On the Santa Rosa campus, the Manager, Student Life, serves as Ombudsperson. On the Petaluma Campus, the Dean, Student Services, serves as Ombudsperson.
- If both parties agree, the Ombudsperson may be asked to mediate the discussion.

- If the student is not comfortable addressing the source of the complaint because of harassment or discrimination concerns (Type II), he/she should take the complaint to the Vice President, Human Resources.
- The faculty member, staff person, or administrator who is the source of the complaint has ten (10) instructional days from first contact to suggest a resolution.
- In cases where the complaint cannot be resolved through open and honest dialogue between the persons involved, students can proceed to the informal complaint process.

Informal Complaint

- If a Direct Resolution cannot be agreed upon, the student may make contact with the immediate supervisor of the person toward whom the complaint is being brought. In the case of a faculty member, the immediate supervisor is the Department Chair, Program Director or Supervising Administrator. In the case of a staff person or administrator, the Ombudsperson may be consulted if help is needed in identifying the immediate supervisor to be contacted.
- To initiate an Informal Complaint, the student must fill out the Student Complaint form found at **https://rightsresponsibilities.santarosa.edu/complaints-grievances (https://rightsresponsibilities.santarosa.edu/complaints-grievances)** and at the Student Life Office on either the Santa Rosa or Petaluma Campus.
- The supervisor must provide the student with a proposed resolution and/or decision regarding the complaint within ten (10) instructional days of student contact with the supervisor. This initial contact may happen via email, telephone, or face-to-face. The faculty/staff decision must be included on the complaint form with signatures; additional pages may be attached if necessary.
- By mutual agreement, the student and the supervisor may extend the timeline in order to resolve the issue. To verify/document that the complaint timeline was followed, the supervisor will send information to the supervising administrator with the proposed resolution, send a copy to the student, and also print and keep a confidential copy.
- If the Informal Complaint cannot be resolved, the student can file a Formal Grievance. This must be filed within ten (10) instructional days after receiving the proposed resolution of the Informal Complaint.

Formal Grievance

If the student is not willing to accept the decision or proposed resolution from the informal complaint process, and the student wishes to appeal, the complaint becomes a formal grievance and the student becomes a grievant.

- The purpose of the Formal Grievance process is to provide for an impartial review and to ensure that the rights of students are properly recognized and protected. A grievable action is defined as any action:
- Violating written campus policies,
- Constituting arbitrary, capricious, or unequal application of written campus policies or procedures, or
- Violating applicable local, state or federal laws.
- The grievant must put his/her grievance in writing using the Student Grievance Form found at **https://rightsresponsibilities.santarosa.edu/complaints-grievances (https://rightsresponsibilities.santarosa.edu/complaints-grievances)** and at the Student Life Office on either the Santa Rosa or Petaluma Campus. The student must bring the filled-out form with him/her to the Supervising Administrator.
- Throughout the Formal Grievance process, all new evidence or allegations must be germane to the original grievance as filed and stated in the grievance form. The grievant may enlist the support of the Ombudsperson in filling out the form. During each step of the Formal Process, every attempt should be made to meet with the grievant in person.

Step A – Contact Supervising Administrator

- Students should make contact with the Supervising Administrator appropriate to the individual against whom the grievance is being brought. If both parties are located on the Petaluma Campus, the Supervising Administrator will be

one of the Deans on the Petaluma Campus. The Supervising Administrator must respond to the grievant with a written decision within ten (10) instructional days of the first date of filing of the grievance form.
- By mutual agreement, the grievant and the Supervising Administrator may extend the timeline in order to resolve the issue.
- If necessary, the student may appeal the decision to the appropriate Vice President (Step B) within ten (10) instructional days of receiving the decision in writing.

Step B – Contact Vice President

- If the grievant wishes to appeal the decision of the Supervising Administrator, the grievant must make contact with the appropriate Vice President. In the case of a faculty member, this will be the Senior Vice President, Academic Affairs. In cases involving a classified employee, faculty who work outside the classroom (e.g. counselors), an administrator, or a Type V (non-grade) grievance, the student grievant should consult the Ombudsperson to determine the appropriate Vice President to contact.
- The Vice President (or designee) must address the grievance within ten (10) instructional days of filing the Grievance Form with the Vice President. By mutual agreement, the student and the Vice President may extend the timeline in order to resolve the issue.
- Within ten (10) instructional days of receiving the decision in writing, the grievant may appeal the Vice President's decision to the College Grievance Board of Review.

Step C – Board of Review

- To initiate an appeal to the College Grievance Board of Review, the student must contact the Vice President, Student Services and request a review of prior decisions by a Board of Review.
- The Vice President, Student Services will determine the appropriate Vice President to convene the Board of Review.
- The grievant must bring the completed, signed Grievance Form and all documentation from each prior step of the process (Grievance Packet).
- Within ten (10) instructional days after receiving this Grievance Packet, the Vice President, Student Services (or designee) will deliver a copy of the Grievance Packet to the person whom the grievance is against and call for formation of a Board of Review. A hearing must be scheduled within fifteen (15) instructional days of filing of the student grievance form with the Vice President, Student Services. The Board of Review will convene and recommend action.

COLLEGE GRIEVANCE BOARD OF REVIEW

Composition

- A Board of Review shall be convened upon the written request of the Vice President, Student Services.
- A Board of Review is composed of two faculty members appointed by the Academic Senate, one administrator chosen by the Vice President Student Services, and two students appointed by the Student Senate. Alternates will be chosen for each position to serve in cases of conflict of interest. If the formal grievance is against a classified staff member, the committee would be augmented by two members of the classified staff selected by their bargaining unit.
- One of the members of the Board of Review will be appointed as chairperson by the Vice President, Student Services.
- All members of the Board of Review must be present for it to take any action. Those members voting will have been present during all testimony and deliberation.
- If the Board of Review is unable to arrive at a recommendation within ten (10) instructional days of the opening of the hearing, then the Board will be dissolved and a new Board of Review appointed.

College Grievance Board of Review

Process

- The information in the possession of the Vice President, Student Services, shall be provided to the Board of Review by the Vice President.
- The Board of Review may postpone the hearing if they feel one or both parties need more time to prepare their cases. The Board of Review shall discuss issues, hear testimony, examine witnesses and consider all available evidence pertaining to the charge.
- Arguments about legal validity or constitutionality of College policies or procedures will not be entertained by the Board of Review and the hearing will not be interrupted for their presentation.
- Attendance at the hearing shall be limited to Board of Review Members and the active parties of the grievance. Both parties have the right to representation and to question witnesses present to testify. Witnesses will be present only while testifying.
- The hearing need not be conducted according to technical rules relating to evidence and witnesses. Any relevant evidence shall be admitted if it is the sort of evidence on which reasonable persons are accustomed to relying on in the conduct of serious affairs.
- The Board of Review shall judge the relevance and weight of testimony and evidence and make its findings of facts, limiting its investigation to the formal charge. A vote of the Board of Review will be taken by open written ballot and the votes recorded by name. A majority vote is required for a decision. The decision of the Board of Review must be presented within five (5) instructional days of the close of the testimony.
- The Board of Review may make recommendations as appropriate with the individual's standing in the College community and the severity of the offense.
- A recording made of the proceedings shall be submitted by the Board of Review and kept in a confidential file by the Vice President, Student Services and shall be available at all times to both parties of the grievance. A written transcript will also be filed at the request of either party at that person's expense.

Final Action

- The Board of Review shall submit its findings of facts and recommendations to the Vice President, Student Services, with copies to each party to the grievance and to the Superintendent/President. This shall serve as a final decision unless changed through the appeal process listed below.

Appeals

- Either party may write an appeal to the Superintendent/President within two (2) instructional days of receipt of certified mail notification. The Superintendent/President, (or designee) upon receiving an appeal and the findings of facts and recommendations of the Board of Review, shall review the proceedings of the Board and conduct such investigation as seems appropriate. The Superintendent/President (or designee) will render a decision and transmit it in writing to both concerned parties and the Board of Review.

ISSUES NOT RESOLVED AT THE CAMPUS LEVEL

U.S. Department of Education State Authorization Regulations

In order for institutions of higher education to participate in the Federal student aid programs authorized by Title IV of the Higher Education Act of 1965, an institution must be legally authorized to provide post-secondary educational programs within the state in which it is located. By rule promulgated by the U.S. Department of Education, part of this "state authorization" requirement is that the state must have "a process to review and appropriately act on complaints concerning the institution including enforcing applicable State laws. For its part, the institution must "provide students or prospective students with contact information for filing complaints with its accreditor and with its State approval or licensing entity and any other relevant State official or agency that would appropriately handle the student's complaint."

Options Beyond the Campus Level

Most complaints, grievances or disciplinary matters should be resolved at the campus level. This is the quickest and most successful way to resolving issues involving a California Community College (CCC). You are obligated to work through the college complaint process first before escalating issues to any of the following resources. Issues that are not resolved at the campus level may be presented:

- To the Accrediting Commission for Community and Junior Colleges (ACCJC) at **http://www.accjc.org/complaint-processcomplaint-process (http://www.accjc.org/complaint-processcomplaint-process)** if your complaint is associated with the institution's compliance with academic programs quality and accrediting standards. ACCJC is the agency that accredits the academic programs of the California Community Colleges.
- To the CCC Chancellor's Office by completing the Web form at **http://californiacommunitycolleges.cccco.edu/ComplaintsForm.aspx (http://californiacommunitycolleges.cccco.edu/ComplaintsForm.aspx)** if your complaint does not concern CCC's compliance with academic program quality and accrediting standards.
- If your complaint involves unlawful discrimination, to the Chancellor's Office Web site at **http://extranet.cccco.edu/Divisions/Legal/Discrimination.aspx (http://extranet.cccco.edu/Divisions/Legal/Discrimination.aspx)**. Nothing in this disclosure should be construed to limit any right that you may have to take civil or criminal legal action to resolve your complaints.

Procedure 8.2.2P, Revised December 2012

STUDENT CONDUCT AND DISCIPLINE DUE PROCESS

The Sonoma County Junior College District supports a safe, productive learning environment to foster intellectual curiosity, integrity and accomplishment as defined in the District Mission and Goals.

The District holds that students shall conduct themselves in a manner which reflects their awareness of common standards of decency and the rights of others. Interference with the District's mission, objectives, or community life shall be cause for disciplinary action.

A student is defined as a person who is currently enrolled as a student in a credit or noncredit class or in community service offerings of the District; engaged in District activities in preparation for enrollment; or enrolled as a student or preparing for enrollment at the time of an alleged violation of the Standards of Conduct.

In some circumstances these standards of conduct may apply to conduct that occurs off campus when the Conduct Dean determines there is reasonable association with the District. In cases involving sexual misconduct, the jurisdiction will be determined by the Vice President of Human Resources & Title IX Coordinator.

Students shall be subject to District discipline only for good cause which shall include, but not be limited to, the following categories of misconduct that occurs at any time, in any format with a member of the District community, or at a District-approved activity or sponsored event.

ACTS OF MISCONDUCT

A. Dishonesty, such as cheating, plagiarism, or knowingly furnishing false information to the District.

B. Forgery, alterations, or misuse of District documents, records, or identification.

C. Use of any electronic listening or recording device in any classroom without the prior consent of the instructor, except as necessary to provide reasonable auxiliary aids and academic accommodations to a student with a disability.

D. Making a video recording, audio recording, taking photographs, or streaming audio/video of any person in a location where the person has a reasonable expectation of privacy, without that person's knowledge and express consent.

E. Sale, preparation, or distribution for any commercial purpose course lecture notes or video or audio recordings of any course, unless authorized by the authoring faculty or District representative in advance. The unauthorized sale or commercial distribution of course notes or recordings by a student is a violation of this policy whether or not it was the student or someone else who prepared the notes or recordings.

F. Obstruction or disruption of teaching, research, administration, disciplinary procedures, District activities, or other activities authorized by the District including its public service functions, or of other authorized activities.

G. Solicitation or acceptance of money or other item of value as an inducement, encouragement, or reward for intercollegiate participation or false declarations regarding eligibility for participation in intercollegiate athletics.

H. Sexual misconduct including but not limited to lewd or indecent behavior, sexual assault, sexual battery, sexual harassment, or threat of sexual misconduct as defined by law or policy of the District.

I. Participation in hazing or any method of initiation or pre-initiation into a campus organization or other activity engaged in by the organization or members of the organization at any time that causes, or is likely to cause, physical injury or personal degradation or disgrace resulting in psychological harm to any student or other person.

J. Harassment, bullying, or discriminatory behavior defined as conduct that is objectively severe, pervasive, and offensive, and that so substantially impairs a person's access to District programs or activities that the person is effectively denied equal access to the District's resources and opportunities.
Harassment includes, but is not limited to, conduct that is motivated on the basis of a person's race, color, national or ethnic origin, citizenship, sex, religion, age, sexual orientation, gender identity, pregnancy, marital status, ancestry, service in the uniformed services, physical or mental disability, medical condition, or perceived membership in any of the classifications.

K. Stalking behavior in which a student repeatedly engages in a course of conduct directed at another person and makes a credible threat with the intent to place that person in reasonable fear for his or her safety, or the safety of his or her family; where the threat is reasonably determined by the District to seriously alarm, torment, or terrorize the person; and where the threat is additionally determined by the District to serve no legitimate purpose.

L. Physical, verbal, written, or image based abuse of any person, or conduct which threatens or endangers the health or safety of any such person.

M. Assault, battery, or any threat of force or violence upon a person.

N. Possession or use of any deadly weapon, replica weapon, explosive, or other destructive devise on District Property including, but not limited to firearm, dirk, dagger, ice pick, knife, or any other object used as a weapon.

O. Willful misconduct resulting in injury or death to a person or which results in cutting, defacing, or other damage to any District or personal property.

P. Committing, attempting, or being an accomplice to robbery or extortion on District property or at a District activity.

Q. Theft of or damage to property of the District or of a member of the District community or campus visitor. This includes abuse of District computers and other District electronic resources such as computer and electronic communications facilities, systems, and services. Abuses include, but are not limited to, unauthorized entry, use, transfer, or tampering with the communications of others; interference with the work of others and with the operation of computer and electronic commutations facilities, systems, and services.

R. Willful or persistent smoking or use of electronic or vapor smoking device in any area on District property where smoking has been prohibited by law or by regulation of the Board of Trustees of Sonoma County Junior College District.

S. Unauthorized entry to, possession of, receipt of, or use of any District services, equipment, resources, or properties, including the District or College name or logo. Unauthorized possession, duplication, or use of keys or entry devices to any District facilities.

T. Violation of District regulations maintained by the Office of Student Affairs concerning student organizations, or the time, place and manner of public expression, including participation in a disturbance of the peace or unlawful assembly.

U. Engaging in expression which is libelous or slanderous or which so incites others as to create a clear and present danger of the commission of unlawful acts on District premises or at District-sponsored or supervised functions, or the violation of lawful District administrative procedures, or the substantial disruption of the orderly operation of the District.

V. Unlawful possession, use, sale, offering to sell, or furnishing, or being under the influence of, any controlled substance, alcoholic beverage, or intoxicant or poison or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia.

W. Continued disruptive behavior, failure to comply with directions of District officials acting in the performance of their duties, continued willful disobedience, habitual profanity or vulgarity, open and persistent defiance of authority or persistent abuse of District personnel requiring inordinate drains on staff time, resources and supervision.

X. Failure to identify oneself to, or comply with the directions of a District official acting in the performance of their duties or resisting or obstructing such District official in the performance of or the attempt to perform their duties.

Y. Failure to observe precautions the District deems necessary to ensure the safety of the student or others.

WRITTEN NOTICE

For the purpose of this policy and procedures, and unless otherwise specified, “written notice” means notice that is served by U. S. mail and email at the student’s most recent addresses on file in the District’s Admissions and Records Office and shall be deemed received by the student two (2) working days after deposit in the mail or received immediately by the student upon email delivery.

Discipline Due Process

The intention of the Student Discipline and Due Process Procedure is to resolve alleged violations of the standards of conduct in a fair, honest manner that honors the needs and protects the safety of the District community.
These procedures provide a prompt and equitable means to address violations of the Santa Rosa Junior College Student Standards of Conduct in accordance with the due process rights guaranteed to students. These procedures do not substitute for criminal or civil proceedings that may be separately initiated.
These procedures are not intended to infringe in any way on the rights of students to engage in protected free expression.

The Superintendent/President delegates general authority for the implementation of this Administrative Procedure to the Dean, Student Conduct or designee. The Dean of Student Services, Petaluma Campus shall be the Conduct Dean for student conduct matters at the Petaluma Campus.

I. REPORTING MISCONDUCT

A. Any member of the college community may make a complaint against a student with allegations of misconduct. Acts of academic dishonesty such as cheating or plagiarism shall be reported to the Dean, Student Services for incidents at the Petaluma campus, and the Dean, Student Affairs and Engagement Programs for all other locations.
Acts of sexual harassment shall be reported to the District Vice President of Human Resources & Title IX Coordinator. All other misconduct shall be reported to the Conduct Dean.

B. Misconduct in the instructional setting may be addressed and resolved by the instructor. The instructor shall privately inform the student of the misconduct, either face to face or by email, with a warning and statement of expected behavior in an effort to redirect the student. The student, at this point, has the right to respond to the instructor's allegations. If the misconduct is severe, or continues after warning, a report shall be sent to the Department Chair and the Conduct Dean.

C. Any member of the college community including District Police officers, administrators, students, faculty and staff may report misconduct in a non-instructional setting to the Conduct Dean.

D. Any misconduct that is deemed dangerous or criminal shall be reported to District Police immediately and then the Conduct Dean.

II. INVESTIGATION AND ADMINISTRATIVE HEARING PROCESS

A. Upon receiving the conduct referral, the Conduct Dean will investigate the allegations. If the Dean finds there are grounds for charges, a written Statement of Charges shall be provided to the student that will include a statement of the misconduct, the identified conduct violation charges, and the time, date, and place of the Administrative Hearing. The student shall be asked to provide a written response to the Statement of Charges to the Conduct Dean no later than two (2) working days after the student's receipt of the Statement of Charges. The Statement of Charges may be amended at any time upon providing notice to the student of such amendment.

B. Representation and Advisors

1. The student shall represent him or herself at the hearing, and may, but need not, bring a non-attorney advisor he or she chooses. The non-attorney advisor may advise the student, but may not participate. Failure by the non-attorney to comply with this requirement will result in removal from the hearing.

2. The Conduct Dean may request that the District provide an attorney at the hearing to sit in an advisory capacity and to provide legal counsel. If the District intends to have an attorney assist the Conduct Dean during the hearing, it will notify the student not less than five (5) working days prior to the date of the hearing so that the student may decide whether to obtain his or her own attorney.

3. A student may have an attorney advisor only if (1) the District will have an attorney to assist the Conduct Dean during the hearing, or (2) if criminal charges related to the alleged student misconduct are pending against the student at the time of the hearing. The student is solely responsible for securing and compensating an attorney. The student must notify the District not less than five (5) working days prior to the date of the hearing that they will be accompanied by an attorney under this paragraph.

4. Attorneys who assist the Conduct Dean or a student may be present and provide advice to their client, but beyond stating their names for identification purposes, may not participate by examining witnesses, submitting or objecting to

documents, making statements, or asking questions.

5. Any person licensed to practice law is considered an attorney for purposes of the hearing.

C. The hearing shall be closed and confidential.

D. At the Administrative Hearing, the Conduct Dean shall give the student the opportunity to respond to the Statement of Charges.

E. The Dean may conduct further investigation of the allegations and may require additional meetings with the student as part of the Administrative Hearing.

F. The Dean and the student may discuss voluntary resolution/consent to discipline as part of the Administrative Hearing if deemed appropriate by the Dean.

G. Waiver of Administrative Hearing

1. A student who fails to attend an Administrative Hearing without excusable reason shall be deemed to have waived his or her right to an Administrative Hearing. Excusable reason means inability to meet due to student's hospitalization, incarceration, or other reason beyond the student's control as determined by the Conduct Dean.

2. Following the Waiver of Administrative Hearing, the Conduct Dean will proceed to determine and provide notice to the student of the Administrative Decision.

III. DETERMINATION AND NOTICE OF ADMINISTRATIVE DECISION/RECOMMENDATION

The Conduct Dean shall issue a written notice of his or her Administrative Decision to the student including recommended sanction, within ten (10) working days of completion of the Administrative Hearing process or within ten (10) working days of the student's waiver of hearing rights. The Conduct Dean may extend the time for issuing written notice if he or she determines an extension is appropriate to support a meaningful disciplinary process. The Administrative Decision shall be based on reasonable and relevant evidence. The Conduct Dean may consider the student's disciplinary history at the District in reaching a decision or recommendation. The Administrative Decision shall include the Statement of Charges, indication of timely written response from the student, factual findings and conclusions as to which Standards of Student Conduct were violated and any discipline sanctions to be imposed.

IV. SANCTIONS

A. Withdrawal of Consent to Remain on District Property

1. The Superintendent/President, College Chief of Police/designee, Vice President of Student Services/Assistant Superintendent, and Conduct Dean are authorized to notify any person for whom there is a reasonable belief that the person has willfully disrupted the orderly operation of the District that consent to remain on District property has been withdrawn. If the person is on District property at the time, they must promptly leave or be escorted off site.

2. Withdrawal of consent to remain on District property issued to a student shall not exceed fourteen (14) calendar days from the date upon which consent was initially withdrawn.

3. Any student whose consent to remain on District property has been withdrawn who knowingly re-enters the campus during the period in which consent has been withdrawn, except to attend a hearing with the Conduct Dean, is subject to arrest.

4. Withdrawal of consent does not preclude any other disciplinary actions under these procedures for student violation of the District's Student Conduct Standards.

B. Exclusion from Class or Activity

1. An instructor may decide to exclude a student from up to two class meetings and shall notify the Conduct Dean and Department Chair. Classwork missed during an instructor removal may not be made up, and the days of removal are considered unexcused absences.

2. Any faculty or administrative staff who are assigned to supervise a library, tutorial center, instructional laboratory, study facility, or other site of extra-curricular activities such as clubs and athletics may exclude a student for no more than two (2) days of required attendance, or if attendance is not required, for two (2) consecutive days and shall notify the Conduct Dean and supervising administrator.

C. Immediate Interim Suspension
If the Conduct Dean determines it is necessary to protect lives or property and to ensure the maintenance of order, a student may be immediately suspended from some or all classes and class-related activities, pending an opportunity for a hearing within ten (10) calendar days.

D. Probation or Short-term Suspension
If the Conduct Dean determines that good cause exists to impose a period of probation or short-term suspension, the Administrative Decision shall specify the length of time of the probation or suspension and the parameters of activities covered by the sanction. Probation allows for conditional continued enrollment under stated restrictions. Short-term suspension excludes a student from one or more classes and/or extra-curricular activities for a specified period of less than ten (10) days of instruction. The Conduct Dean's determination of probation or short-term suspension or lesser disciplinary action shall be final and cannot be appealed. Violations of either probation or short-term suspension may be cause for more serious disciplinary action.

E. Long-term Suspension
If the Conduct Dean determines that good cause exists to suspend the student from the District on a long-term basis, the Administrative Decision shall specify the length of the long-term suspension, which may range from exclusion from one or more classes for more than ten (10) days of instruction up to one or more terms. A long-term suspension includes exclusion from class-related activities and extra-curricular activities for a concurrent period unless otherwise indicated.

F. Restitution and/or Restorative Remedies
If the Conduct Dean determines that good causes exists to impose restitution for damages caused to District or personal property, the Conduct Dean shall determine monetary penalty as compensation for damage resulting from student misconduct.
Restitution may take the form of appropriate services identified by the District. If the Conduct Dean determines that participation in restorative remedies is appropriate a restorative plan will be written in the Notice of Administrative Decision.

G. Expulsion
If the Conduct Dean recommends expulsion, he or she shall forward the matter to the Vice President of Student Services. Expulsion means permanent exclusion of the student by the Board of Trustees from all District courses, activities, and presence on District property. The Vice President of Student Services shall determine whether to accept, modify, or reject the Conduct Dean's Administrative Decision. If the Conduct Dean's expulsion recommendation is accepted, the Vice

President shall forward the recommendation to the Superintendent/President. If the Conduct Dean's Administrative Decision is rejected or modified, the student shall receive written notice of the new Administrative Decision.

V. APPEAL PROCEDURES

A. Right to Appeal

If either long-term suspension or expulsion is recommended, the student may submit a timely request for an appeal hearing unless the student waived the right to appeal by failing to participate in the Administrative Hearing process.

B. Request for Appeal Hearing

If a student who participated in the Administrative Hearing wishes to appeal an Administrative Decision imposing a long-term suspension or recommendation for expulsion, the student shall serve a written Request for Appeal Hearing with the Conduct Dean no later than 5:00 p.m. on or before the fifth working day after the student's receipt of the written Administrative Decision.

If no timely Request for an Appeal Hearing is received by the Conduct Dean, the right to an Appeal Hearing is waived by the student. If the Administrative Decision imposes a long-term suspension, the long-term suspension shall commence immediately upon the expiration of the time to request an Appeal Hearing. If the Administrative Decision recommends expulsion, the matter shall be sent to the Superintendent/President.

C. Schedule and Notice of Appeal Hearing

1. Upon receipt of a student's timely request for an Appeal Hearing, the Conduct Dean will schedule an Appeal Hearing and send written notice to the student of a Notice of Appeal Hearing and Statement of Charges.

2. The Appeal Hearing shall be held within twenty (20) working days after a written request for Appeal Hearing is received from the student. The Conduct Dean or Hearing Officer may determine an extension of the Appeal Hearing date is appropriate to support a meaningful disciplinary process. The Notice of Appeal Hearing and Statement of Charges shall advise the student of the date, time, and place of the Appeal Hearing. The written Notice of Appeal Hearing and Statement of Charges shall be sent to the student at least five (5) working days prior to the Appeal Hearing date.

3. The Statement of Charges shall include the following:

a. The alleged misconduct.

b. The specific section (s) of the Standards of conduct that the student is accused of violating.

c. A brief statement of the facts supporting the Charges.

d. The discipline sanction(s) being considered.

4. The Administrative Decision may serve as the Statement of Charges.

5. The student may submit a written response to the Statement of Charges to the Hearing Officer by no later than 5:00 p.m. three (3) working days in advance of the date of the Appeal Hearing.

D. Impartial Appeal Hearing

1. The President/Superintendent shall assign the Appeal Hearing to an impartial District administrative Hearing Officer, such as another dean or vice president. Prior to assigning the matter, the Superintendent/President shall determine to

his/her satisfaction that the assigned Hearing Officer does not have personal knowledge of or involvement in the matter and that the Hearing Officer is able to provide a timely and unbiased review and determination of the matter.

2. Prior to the commencement of the Appeal Hearing, the Hearing Officer shall be provided with a copy of the Statement of Charges and any timely written response provided by the student.

3. Formal rules of evidence shall not apply, but relevant evidence may be admitted and considered if it is the kind of evidence upon which reasonable persons are accustomed to rely in the conduct of serious affairs.

4. Unless the Hearing Officer determines to proceed otherwise, the Conduct Dean and the student may make opening statements. The facts supporting the accusation shall be presented by the Conduct Dean. The student may then present his or her evidence. The Conduct Dean may present rebuttal evidence after the student completes his or her defense. If the student's disciplinary history is introduced, the student may address his or her discipline history, but shall not be permitted to call witnesses or introduce documents to refute the conduct upon which the previous disciplinary action(s) were based or the appropriateness of the previous disciplinary action(s). The Conduct Dean and the student may call and question their own witnesses and introduce oral and written testimony relevant to the matter. Written testimony must be signed and dated, and the accuracy of the contents must be verified by the author under penalty of perjury. Notification of names of witnesses and relevance to the case shall be submitted in writing to the Conduct Dean by no later than 5:00 p.m. three (3) working days in advance of the date of the Appeal Hearing. All witnesses shall be excluded from the Appeal Hearing when not testifying. The Hearing Officer does not have the power to subpoena witnesses. The Conduct Dean and the student may make closing statements.

5. A student who fails to appear for the Appeal Hearing at the designated time and place shall be deemed to have waived his or her right to an Appeal Hearing and the discipline sanctions included in the Statement of Charges shall be imposed.

6. The student shall represent him or herself at the Appeal Hearing with the same stipulations regarding attorney and non-attorney advisors as outlined under the Administrative Hearing Process.

7. The Appeal Hearing shall be closed and confidential.

8. The Appeal Hearing shall be audio or stenography recorded by the District and shall be the only recording made unless the Hearing Officer authorizes additional recordings. No witness who refuses to be recorded shall be permitted to give testimony. Recordings shall remain in the custody of the District at all times, unless released to a professional transcribing service. The student may request a copy of the recording at his or her own cost.

E. Preparation of Decision

1. Within thirty (30) working days following the conclusion of the Appeal Hearing, the Hearing Officer shall prepare and send to the Superintendent/President a written Advisory Decision and a complete copy of the record of the Hearing. In matters under the jurisdiction of Title IX, the timeline shall be adjusted to meet the 60 working days guideline for completion of the appeal. The Advisory Decision shall be based upon the preponderance of evidence relevant to the charges adduced at the Hearing. The Advisory Decision shall include factual findings, conclusions as to whether any sections(s) of the standards of Student Conduct were violated, and a recommendation of the disciplinary action to be imposed, if any. The Advisory Decision shall be based only on the record of the hearing.

2. The "record of the hearing" shall include the Statement of Charges (as amended, if applicable), the student's written response, if any, the oral and documentary evidence adduced at the Hearing, the recording made during the Hearing, and the District's record of previous disciplinary issues related to the student, it any.

VI. SUPERINTENDENT/PRESIDENT'S REVIEW

A. President's Review When Student Waived Procedures

If the Conduct Dean recommends expulsion and the student waives his or her right to proceed by failing to attend the Administrative Hearing or by failing to make a timely request for an appeal hearing, the Superintendent/President shall determine whether to accept, modify, or reject the Dean's Administrative Decision.

B. President's Review of Appeal Hearing

1. Within thirty (30) working days of receipt of the Hearing Officer's Advisory Decision and record of the Appeal Hearing, or sooner if required to meet Title IX guidelines, the Superintendent/President shall review the Advisory Decision and the record of the Appeal Hearing and shall determine whether to accept, modify or reject the Advisory Decision. If the Superintendent/President determines to modify or reject the Hearing Officer's Advisory Decision, he or she shall prepare a new written decision which contains specific factual findings and conclusions based on the record of the Appeal Hearing.

2. A decision of the Superintendent/President to uphold the Conduct Dean's suspension of a student shall be final and written notice of the final Administrative Decision shall be sent to the student.

3. If the Superintendent/President determines that expulsion is appropriate, the recommendation for expulsion shall be made in writing to the Board of Trustees and written notice sent to the student.

VII. BOARD OF TRUSTEES REVIEW

EXPULSION

A. Consideration of Expulsion Recommendation

The Board of Trustees shall consider any recommendation from the Superintendent/President for expulsion at the next regularly scheduled meeting of the Board occurring at least 10 working days after receipt of the recommendation or at a special meeting held within 20 working days after receipt of the recommendation. The Board's review may be extended beyond these periods if the Superintendent/President determines that an extension is appropriate to support a meaningful disciplinary process. The Board's consideration consists of a review of the record of Appeal Hearing and the Advisory Decision from the Appeal Hearing (if applicable), or the President's written decision and/or recommendation. The Board review does not provide another evidentiary hearing for the student on the matter.

B. Board of Trustees Review

The student shall be given written notice of the date, time, and place of the Board's meeting at least five (5) working days in advance of the meeting.
The Board shall consider an expulsion recommendation in closed session unless the student or his or her parent, guardian, or conservator, if the student is a minor or conserved, requests an open session.

C. Board Decision

The Board may accept or reject the expulsion recommendation of the Superintendent/President after a review of the Appeal Hearing record or after reviewing the Conduct Dean's Administrative Decision when the student waived his or her

right to an Appeal Hearing. If the Board rejects the expulsion recommendation, the Board shall prepare a new written decision which includes factual findings, Standards of Conduct that were violated, and disciplinary action, if any. The decision of the Board shall be based only on the record of the Appeal Hearing or the Dean's Administrative Decision, and the District's record of previous disciplinary issues related to the student, if any.
The Board's decision regarding expulsion is final. The Board's action shall be a public record of the District in accordance with laws related to student records.
Written notice of the Board's final decision shall be sent to the student as soon as practicable after the Board meeting.

VIII. SPECIAL CIRCUMSTANCES

The District may notify the parent(s)/guardian(s) of minor students, or conservators of students known to be under conservatorship for educational decisions of proposed disciplinary action against the minor or conserved student when the disclosure to the parent/guardian/conservator is permitted under the Family Educational Rights and Privacy Act.

Policy 8.2.8/Procedure 8.2.8P, Revised March, 2015

STUDENT EQUITY

It shall be the policy of the Sonoma County Junior College District to strive to achieve Student Equity throughout the District. It shall be the commitment of the District to promote the full participation and academic success of all individuals including those from all historically underrepresented groups as defined by the Board of Governors in all aspects of the college.

The District shall maintain plans and procedures to support this policy including required Chancellor's Office reporting.

Student Equity will be determined to have been achieved when the composition of students who enroll, are retained, transfer, or achieve their educational goals, mirror the diversity in the District's adult population.

Policy 8.1.17, Reviewed January 2012

STUDENT OBLIGATIONS AND RESPONSIBILITIES

CHANGE OF ADDRESS

A change of address should be reported promptly to the Admissions, Records, and Enrollment Development Office. Students can also update their address online in their student portal.

ATTENDANCE

Since regular attendance promotes success in class work, a student is expected to attend all sessions of each class in which he/she is enrolled. Attendance is the student's responsibility. Any student who ceases to attend a class and fails to drop it officially in the Admissions and Records Office may receive a grade of "F."

Any student enrolled in a course who is not present or who has not made prior arrangements with the instructor by the first day of class may be dropped from the course by the instructor.

All people attending a class at Santa Rosa Junior College must be enrolled in that class. Please refer to Attendance Requirements Policy 8.1.5, for further information.

EXCEPTIONS ARE:

1. A person seeking to add a class within the prescribed period of time.

2. An occasional visitor with the instructor's permission.
3. A person who has been granted auditing status.

ABSENCES DUE TO ILLNESS

Students who will be absent for more than one week should notify their instructors in advance if possible. Students should determine, by consulting with the instructor, the status of any missed work.

STUDENT RIGHT TO KNOW

In compliance with the Student Right to Know (SRTK) and Campus Security Act of 1990, it is the policy of Santa Rosa Junior College to make available its completion and transfer rates to all current and prospective students. SRTK is a federal mandate for colleges to publicly disclose graduation and transfer rates. These rates track first-time freshmen in a fall cohort who are self-identified as being degree, certificate, or transfer-seeking. Students must be enrolled full time in for-credit, degree-applicable courses. The cohort is, on average, a very small portion of the entire student population. Student outcomes (completion, transfer) are tracked over a three-year period. Please note these rates are by no means an all-encompassing measure of the college's success.

Almost 35 percent of Santa Rosa Junior College's first time, full-time students who entered the college in Fall 2014 with the goal of a degree, certificate, or seeking a transfer received a degree, certificate, or became transfer-prepared (completed 60 transferable units with a GPA 2.00 or better) by Spring 2017. Students who transferred to another post-secondary institution, prior to attaining a degree, certificates, or becoming "transfer prepared" during a three year period, from Fall 2014 to Spring 2017, are transfer students. The completion rate of 34.84 percent is based on the 2013 cohort as per SRTK (Jeanne Clery) regulations.

For more information on SRTK, go to the Web site: **http://srtk.cccco.edu/index.asp (http://srtk.cccco.edu/index.asp)** or contact the Office of Institutional Research at (707) 778-3922.

STUDENT SUCCESS AND SUPPORT

Pursuant to the requirements of the Student Success Act of 2012 (SB 1456), the Sonoma County Junior College District reaffirms its commitment to serve all students who can profit from its instructional programs, to ensure them equal educational opportunity, to provide them the necessary services for optimizing their opportunities for success, and to help students obtain the appropriate information/assistance for achieving their educational goals. The District will develop and maintain appropriate procedures to implement this Board policy.

By this statement, the Board acknowledges the intent of the Student Success Act of 2012, and agrees to implement its regulations to the extent possible and as appropriate. This includes implementing the Student Success and Support Program (SSSP). This policy shall be effective starting the Fall 2014 term.

The District is responsible for the provision of student services to support student success. The Student Success and Support Program (SSSP) will include the following core matriculation services: orientation, assessment, counseling, advising, and other student education planning, and follow-up services.

STUDENT RIGHTS AND RESPONSIBILITIES

1. All students have the right to the following student success and support services: orientation, assessment; counseling, advising, and other student education planning; and follow-up services
2. Each student has the responsibility identify an educational goal upon application and declare a course of study after completing fifteen (15) degree-applicable semester units, attend an orientation session; complete the assessment

service; attend classes regularly and complete assigned coursework; adhere to all college rules, regulations, and policies, and participate in the development of his or her student education plan (SEP).

3. Each student is entitled to:

A. Participate in the development of his or her student education plan. A student who believes that the District has not afforded him or her the opportunity to develop or implement this plan may file a complaint with an appropriate Student Services Dean or designee;

B. Equal opportunity to engage in the educational process. A student who alleges he or she has been subject to unlawful discrimination may file a grievance with Human Resources;

C. Challenge any prerequisite using established procedures through appropriate channels on one or more of the following grounds:

1. The prerequisite is not valid because it is not necessary for success in the course for which it is required;

2. The student has the knowledge or ability to succeed in the course despite not meeting the prerequisite;

3. The prerequisite is discriminatory or is being applied in a discriminatory manner;

4. The prerequisite or co-requisite course is not reasonably available; A prerequisite challenge must be filed on the appropriate form with the Office of Admissions and Records.

D. Challenge his or her placement results and request to enroll in a course that is not recommended by the course placement through the college process. The District has the authority to drop a student from a course if he/she has not met the requirement;

E. Review the Student Success and Support Program regulations of the California Community Colleges and file a complaint when he or she believes the District has engaged in any practice prohibited by these regulations. These regulations are available and complaints may be filed in the Office of the Vice President of Student Services.

DISTRICT RESPONSIBILITIES

The responsibilities of the District under this agreement shall include:

1. The processing of applications for admission in a timely manner;
2. Providing timely orientation;
3. Providing assessment for all non-exempt students;
4. Providing counseling, advising, and other education planning services for non-exempt students;
5. Providing assistance to all non-exempt students in development of a student education plan which identifies education goal, course of study, and the courses, services, and programs to be used to achieve them;
6. Providing follow-up services to evaluate the academic progress of, and provide support services to at-risk students;
7. Referring students to
   A. Support services which may be available, including but not limited to, counseling/advising, financial aid, health and mental health services, campus employment placement services, Extended Opportunity Program & Services (EOPS), and Disabled Student Programs and Services (DSPS), tutorial services, foster youth support services, veterans support services; and
   B. Curriculum offerings including but not limited to, basic skills, noncredit programs, and English as a Second Language;
8. Conducting an ongoing research program to determine the effectiveness of the Student Success and Support Program to ensure effectiveness in improving student progress toward and completion of educational goals and courses of study;
9. Providing professional development opportunities to help faculty and staff implement Student Success and Support requirements;

10. Developing and regularly reviewing and updating a Student Success and Support Program Plan, which clearly delineates each of the above areas of responsibilities. Compliance with these requirements will be monitored by the state Chancellor's Office as stipulated by the Student Success Act of 2012 (SB 1456);
11. Investigating and attempting to resolve any challenges and complaints related to the Student Success and Support Program in a timely manner. Records of such complaints will be retained for three years after the complaints have been resolved or longer if necessary.

FULFILLMENT OF REQUIRED STUDENT SUCCESS AND SUPPORT SERVICES

Students who complete the required orientation, assessment, and education planning services will be identified as fully-matriculated.

Upcoming Changes: Assessment policies will be changing in response to Assembly Bill 705. Please see our website for the most current information and procedures: **https://assessment.santarosa.edu/ (https://assessment.santarosa.edu/)**

1. Assessment

Students may fulfill this requirement in a subject area (Mathematics, English, or ESL) through one or more of the following:

A. Completing an equivalent course at a post-secondary accredited institution in that subject area (the course will determine placement).

B. Earning a qualifying Advanced Placement (AP) score or International Baccalaureate (IB) exam score in the subject area.

C. Having obtained a placement result using Chancellor's Office approved methods.

Placement methods will be in compliance with current legislation.

D. Providing placement results from other California community colleges.

E. Having valid Early Assessment Program (EAP) results that satisfy placement conditions determined by the District.

2. Orientation

Students may fulfill this requirement through COUN 270, Online Orientation, and/or in-person group orientation, as well as orientation services provided by other District programs that meet SSSP regulations.

3. Education Planning

Students may fulfill this requirement by meeting with a counselor to develop either an abbreviated education plan (one or two terms in length) or a comprehensive education plan (at least two terms in length and reflecting the number of terms required to achieve the student's declared course of study).

Students may also fulfill this requirement through other programs, such as DSPS, EOPS/CARE, CalWORKs, or other District programs that provide the education planning services.

Students should work with counselors to update their education plans if their goals and courses of study change.

EXEMPTION CRITERIA

Certain students may be exempted from the SSSP requirements if they meet the exemption criteria described in this procedure. Students may elect to participate in these services to become fully-matriculated regardless of their exemption status.

Students who are exempt and who elect not to participate in the SSSP services will not obtain registration priority.

The following categories of students may be exempt from the SSSP service requirements:

1. Students who have earned an Associate or higher degree.

2. Students who are enrolled in the District for the purpose of personal interest or completion of credits for high school diploma or GED.

3. High school students who are concurrently enrolled in the District.

Policy 8.6 and Procedure 8.6P, Revised March 2014

TAXPAYER RELIEF ACT OF 1997 (EDUCATION TAX CREDIT)

In accordance with the Taxpayer Relief Act of 1997, beginning in 1998, individuals may be able to claim the new tax credit for higher education costs. These are the American Opportunity Credit and the Lifetime Learning Credit.

American Opportunity Credit

Applies to students who are enrolled at least half-time in their first four years of study at an eligible educational institution. A maximum of $2,500 per year of qualifying tuition and required related expenses may be claimed as a credit against taxes owed by taxpayers who meet defined income restrictions. The American Opportunity Credit can be claimed for an eligible student or dependent student who meets the following requirements:

1. Is enrolled in the first four years of postsecondary education.
2. Is taking at least one-half of the normal full-time work load (6 units or more) for his or her course of study for at least one academic period (spring, summer, fall) during the calendar year.
3. Is enrolled in a program that leads to a degree, certificate, or other recognized educational credential.
4. Is free of any felony conviction for possessing or distributing a controlled substance.

The credit amount starts phasing out for individuals making more than $80,000 and for joint filers making more than $160,000.

LIFETIME LEARNING CREDIT

Individuals may be able to claim a Lifetime Learning Tax Credit of up to $2,000 for the total qualified tuition and related expenses paid during the tax year for all eligible students or dependent students who are enrolled in eligible educational institutions.

1. The Lifetime Learning Credit is not based on the student's work load. It is allowed for one or more courses.
2. The Lifetime Learning Credit is not limited to students in the first four years of postsecondary education.
3. There is no limit on the number of years for which the Lifetime Learning Credit can be claimed for each eligible student.
4. The amount you can claim as a Lifetime Credit does not vary (increase) based on the number of eligible students for who you pay qualified expenses.

For a more detailed Q & A on Tax Credits, visit: **http://www.irs.gov/publications/p970/index.html (http://www.irs.gov/publications/p970/index.html)** Additional Information:

Internal Revenue Services

To obtain/view copies of Internal Revenue Service publications, including Publication 970 Tax Benefits for Higher Education

IRS Telephone Assistance: (800) 829-1040

IRS Local Taxpayer Assistance Center: (707) 523-0924

TITLE IX: SEXUAL MISCONDUCT PREVENTION & RESPONSE

Your safety is our primary concern. The Sonoma County Junior College District is committed to creating and maintaining a community where all individuals who participate in District programs, services and activities can work and learn together in an atmosphere free of violence, harassment, exploitation, or intimidation. The District will respond promptly and effectively to reports of such behavior, and will take appropriate action to prevent, correct, address the effects, and when necessary, discipline behavior that violates District Policies on sexual harassment, sexual assault, relationship violence and stalking.

DEFINITIONS:

Sexual assault: Sexual Assault should be defined as: Sexual activity without the consent of the other person or when the other person is unable to consent to the activity. The activity or conduct may include physical force, violence, threat, or intimidation, ignoring the objections of the other person, causing the other person's intoxication or incapacitation through the use of drugs or alcohol, or taking advantage of the other person's incapacitation (including voluntary intoxication). Sexual assault includes, but is not limited to, fondling, rape, forced sodomy, forced oral copulation, rape by a foreign object, sexual battery, incest, statutory rape, or threat of sexual assault.

Dating Violence: Abuse committed by a person who is or has been in a social relationship of a romantic or intimate nature with the victim.

Domestic Violence: A felony or misdemeanor crime of violence committed by a spouse or former spouse, cohabitant or former cohabitant of the victim, or someone with whom the accused has a child, has an existing dating or engagement relationship, or has had a former dating or engagement relationship, or abuse perpetrated against any persons described in Family Code section 6211.

Stalking: A course of conduct in which a person repeatedly engages in actions directed at a specific person that places that person in reasonable fear of his or her safety or the safety of others or causes substantial emotional distress. A course of conduct means two or more acts, including, but not limited to acts in which the stalker directly, indirectly, or through third parties by any method, device, or means follows, monitors, observes, surveils, threatens, or communicates to or about a victim, or interferes with the property of the victim

Consent: is informed, freely and actively given, involves an understandable exchange of affirmative words or actions which indicate a willingness to participate in mutually agreed upon sexual activity.

It is the responsibility of the initiator to obtain clear and affirmative responses at each stage of sexual involvement.

The lack of a negative response is not consent.

Consent may not be given by a minor or by any individual who is incapacitated, whether voluntarily or involuntarily, by drugs and/or alcohol.

Past consent of sexual activities does not imply ongoing future consent.

LEVELS OF CONFIDENTIALITY:

Full Confidentiality: If you are speaking with a professional who is fully confidential, then the information you disclose regarding sexual assault, intimate partner violence, and/or stalking will not be shared with anyone without your written consent.

Examples of Fully-Confidential Resources include: SRJC Student Psychological Services, Verity (Sonoma County Sexual Assault Crisis Center), therapists and in the absence of treating physical injuries, nurse practioners at Student Health Services.

Limited Confidentiality: With the exception of Student Psychological Services, and in some cases, Student Health Services, all college employees have a duty to report information that comes to their attention of a possible sexual assault, intimate partner violence, and/or stalking. The information is reported to the Title IX Officer located in Human Resources. The College will conduct an investigation to ensure campus safety (per legal mandate).

CAMPUS CONFIDENTIAL RESOURCES:

Student Health Services

SANTA ROSA CAMPUS

Race Building, Room 4017

Clinical Services

Mon, Tues & Thurs: 8:00 am-5:00 pm

Wed: 8:00 am-7:00 pm; Fri: 8:00 am-3:00 pm

707-527-4445

Plover Hall, Room 559

Mental Health Counseling Services

Mon, Tues & Thurs 8:00 am-5:00 pm

Wed: 8:00 am-7:00 pm; Fri: 8:00 am-3:00 pm

707-524-1595

PETALUMA CAMPUS

Call Building, Room 610

Clinical and Mental Health Services

Mon. – Thurs. 8:00 am-5:00 pm

707-778-3919

Community Confidential Resources:

Verity Crisis Center

24 hour rape crisis line

(707) 545-7273

YMCA Domestic Violence Hot Line

24 hour hot line (707) 546-1234

Your Reporting Options:

SRJC District Police

(707)527-1000

To report on campus/near campus, sexual assault, domestic or dating violence, stalking, or threats of any of these acts or allegations of misconduct.Contact your local law enforcement (police, sheriff) to report off campus sexual assault, domestic or dating violence, stalking, or threats of any of these acts or allegations of misconduct.

Both Local Law Enforcement and SRJC District Police will:

- Help you to obtain medical assistance
- Obtain Emergency Protective Orders if appropriate
- Conduct a criminal investigation
- In the event of an arrest, obtain court order to protect you
- Connect you with support services

SRJC TITLE IX OFFICE

To report sexual harassment, sexual assault, domestic or dating violence, stalking, or threat of any of these acts of allegations of misconduct committed by a student, staff, faculty, or other member of the college community, with or without filing a police report and whether on or off campus.

Title IX Coordinator:

Karen Furukawa (707)527-4954

kfurukawa-schlereth@santarosa.edu (mailto:kfurukawa-schlereth@santarosa.edu)

Title IX Deputy Coordinators:

Kim Starke (707) 527-4276

kstarke@santarosa.edu (mailto:kstarke@santarosa.edu) (Santa Rosa)

Matthew Long (707)778-3930

mlong@santarosa.edu (mailto:mlong@santarosa.edu) (Petaluma)

https://titleix.santarosa.edu/ (https://titleix.santarosa.edu/)

The Title IX office will:

- Inform you of your rights as the affected party or the accused
- Inform you of your protection from retaliation
- Assist with referrals to confidential resources
- Investigate allegations involving students and/or staff
- Inform you of the outcome of the investigation
- Forward findings for student or employee conduct review/discipline
- Provide you with reasonably available options for changing academic schedules, campus escort, and referral to academic supports, as well as honoring lawful protective or temporary restraining orders.

Enforcement Information

Allegations of gender discrimination or sexual misconduct may be filed with the District's Title IX Coordinator. The Office of the Title IX Coordinator is located at 1988 Armory Drive, Santa Rosa, CA 95401 and can be contacted by telephone at (707) 527-4954. The mailing address is 1501 Mendocino Avenue, Santa Rosa, CA 95401.

Student allegations of gender discrimination may also be filed with the U.S. Department of Education, Office for Civil Rights (OCR) United Nations Plaza San Francisco, CA 94102 (415) 486-5555, (**ocr.sanfrancisco@ed.gov (mailto:ocr.sanfrancisco@ed.gov)**) or with the Chancellor of the California Community Colleges at **www.cccco.edu**

(http://www.cccco.edu/) or Chancellor's Office, California Community Colleges, 1102 Q Street, Suite 4554, Sacramento, CA 95811-6549, Attention: Legal Affairs Division.

Full versions of Policy and Procedure 2.15/P, Prevention of and Response to Sexual Assault, Sexual Harassment, Domestic Violence, Dating Violence and Stalking can be viewed at: **https://www.boarddocs.com/ca/santarosa/Board.nsf/Public?open&id=policies (https://www.boarddocs.com/ca/santarosa/Board.nsf/Public?open&id=policies%C2%A0)**

TRANSCRIPTS

OUTGOING

Upon request to the Admissions, Records & Enrollment Development Office, the first two official transcripts ever requested will be issued without charge for each student. Thereafter, each official transcript will cost $5.00 each. An additional fee of $5.00 will also be charged for PICK-UP requests. No transcripts will be issued for any student who has an outstanding financial obligation to the College. Transcripts are normally sent out in 5-7 business days. Unofficial transcripts may be obtained via the my Cubby Student Portal (**www.santarosa.edu/portal (http://www.santarosa.edu/portal)**) or in person with a photo ID at no charge. To request your official SRJC transcript go to **www.getmytranscript.com (http://www.getmytranscript.com/)**.

INCOMING

Official transcripts of all previous schooling should be sent directly to the Admissions and Records Office for evaluation. In-person submittals of official transcripts will only be accepted if delivered in a sealed envelope from the issuing institution. Transcripts will be evaluated after the student submits the Transfer Credit Evaluation Form available online. All transcripts become part of each student's permanent SRJC record and will not be released to other institutions or third parties.

UNLAWFUL DISCRIMINATION AND SEXUAL HARASSMENT

The Sonoma County Junior College District is committed to an environment in which all employees and students are treated with respect and dignity. Each employee and student has the right to work/ learn in a professional atmosphere that promotes equal opportunity and is free of unlawful discriminatory practices.
All complaints involving unlawful discrimination or sexual harassment should be directed to the Vice President of Human Resources & Title IX Coordinator (or designee), (707) 527-4954. For more information, please visit **http://www.boarddocs.com/ca/santarosa/Board.nsf/Public?open&id=policies (http://www.boarddocs.com/ca/santarosa/Board.nsf/Public?open&id=policies%C2%A0)**

HOSTIGAMIENTO SEXUAL

The Sonoma County Junior College District está comprometida a mantener un ambiente en el cual todo el personal y estudiantes son tratados con respeto y dignidad. Hostigamiento sexual es una forma de discriminación ilegal y es violación de ley Estatal y Federal al igual que el reglamento oficial del colegio.

Procedure 2.7P, Revised February 2016

VERIFICATIONS

Santa Rosa Junior College has partnered with the National Student Clearinghouse to provide Degree and Enrollment Verification of past and present Santa Rosa Junior College students. Enrollment Verifications are free of charge for students and may be obtained immediately online in the student portal (**www.santarosa.edu/portal (http://www.santarosa.edu/portal)**). If past or present students and/or third parties require degree status and/or enrollment history they may visit the National Student Clearinghouse website directly to obtain this information quickly and securely.

http://www.studentclearinghouse.org/ (http://www.studentclearinghouse.org/)

WAIT LISTS

Class wait lists are intended to facilitate the priority registration process by allowing students the ability to be added to the wait lists once a class has closed if/when additional spaces open due to other student drops. No students on the wait list shall be dropped until the class size maximum is reached. Students who have registered on a wait list have priority over students who have been given an add code by the instructor. All faculty within a department are required to adhere to these wait list regulations. Any individual class exceptions must have prior approval from the Vice President of Academic Affairs.

1. Each department, in consultation with the supervising administrator, will set a wait list size beyond the maximum class size for each course and submit the wait list limit to the Scheduling Office.
2. During priority registration and prior to the official start of the class, these wait list slots will be available to students via computer enrollment and maintained in chronological order.
3. Students enrolled on the computerized wait list are expected to pay all appropriate enrollment fees at the time of registration. If final enrollment is not secured, students can apply enrollment and course fees to another class or receive an automatic refund.
4. Students enrolled on a wait list cannot enroll in classes whose schedule conflicts with the wait list class, nor can students enroll in any other section of the same course for which they already have wait list status.
5. Students will automatically advance on the wait list in chronological order, and enrollment may be secured by the time classes begin.
6. In order to maintain eligibility for enrollment, wait listed students must attend the first class meeting or log on by 11:59 pm Pacific Time of the first day of the class for classes that meet online.
7. Instructors shall inform wait listed students if seats will become available to secure enrollment at the first class meeting or by 11:59 pm Pacific Time of the first day of the class for classes that meet online.
8. If the instructor determines that some or all of the wait listed students cannot be accepted, the instructor must drop those students as soon as possible following the close of the first class meeting, or after 11:59 pm Pacific Time of the first day of the class for classes that meet online. Any wait listed students not dropped will automatically be accepted into the class, without needing add codes.
9. Instructors must not distribute add codes to other students until after all wait listed students have been accepted. Students who have registered on a wait list have priority over students who have been given an add code by the instructor.

Policy 3.1.14 and Procedure 3.1.14P, Revised May 2012

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Transfer Center

Tutorial Center

Veterans' Benefits

Welcome Center

Work Experience

INTERCOLLEGIATE ATHLETICS

The Kinesiology, Athletics and Dance Department offers student-athlete participation on 20 intercollegiate athletic teams, serving approximately 500 student-athletes each year. The College belongs to the Northern California Football Association in Football, the Coast Conference for wrestling and the Big 8 Conference for all other sports. Santa Rosa Junior College offers the following sports, as shown in the table below:

Men's Teams	Women's Teams
Baseball	Basketball
Basketball	Cross Country
Cross Country	Soccer
Football	Softball
Soccer	Swimming/Diving

Men's Teams	Women's Teams
Swimming/Diving	Tennis
Tennis	Track/Field
Track/Field	Volleyball
Wrestling	

SRJC abides by the rules and regulations as set forth in the California Community College Athletic Association's (CCCAA) Constitution and Sport Guides, the Big 8 Conference Constitution and Sport Supplements, and the Northern California Football Association Constitution and Supplement. The Athletics Director and the Dean of Admissions and Records determine all athletic eligibility.

The Athletics Director and the Vice President of Academic Affairs monitor the integrity of the intercollegiate athletic program regarding rules, compliance, eligibility, and competitiveness. The athletic academic counseling staff consists of several identified counselors who understand the special needs of student athletes for eligibility and transfer. Periodic reports on attendance and class progress are requested from each student athlete's instructors. These reports are reviewed by the respective coaches, the Athletics Director, and, when indicated, the Athletics Counselors.

Any prospective student living outside of the State of California desiring information regarding athletic participation at Santa Rosa Junior College is required to make first contact with the Kinesiology, Athletics and Dance Department. First Contact may be established via the Athletics web page at:**http://srjcathletics.com/prospective_athletes/first_contact_form (http://srjcathletics.com/prospective_athletes/first_contact_form)**

Office hours for the department are Monday through Friday from 8:00 am until 5:00 pm. The office phone number is (707) 527-4237. The office fax number is (707) 524-1752. The department web page can be found at **http://srjcathletics.com (http://srjcathletics.com/)**

BOOKSTORES

The college Bookstores operate on both the Santa Rosa and Petaluma campuses. The Bookstore offers new, used, rental, and e-book textbooks, as well as reference and general reading titles. In addition to texts, the stores carry a wide selection of school and office supplies. The Bookstore's Art and Engineering sections carry a comprehensive line of products at competitive prices. The Bookstores also carry sundries, snacks, gifts, clothing, a wide selection of calculators, software at discounted educational pricing, among other items.

In all areas of the Bookstores, from the textbook to customer service departments, there is a commitment to provide quality and convenience.

Students may also purchase or rent their textbooks and selected merchandise online on the Bookstore Web site at **www.santarosa.edu/bookstore (http://www.santarosa.edu/bookstore)** for home delivery or in-store pickup.

Both Bookstores also maintain vending machines where items such as scantrons, blue books, pencils, and other necessities can be purchased after regular Bookstore hours. The vending machines are located in Doyle Library (Santa Rosa Campus) and in the Atrium of the Cafe (Petaluma Campus)

During the school year the normal refund policy of two business days applies to general merchandise except electronics, software, course readers, study aids or sale items; which are nonreturnable.

TEXTBOOK BUYBACKS

To provide the largest number of used texts possible, the Bookstores buy back textbooks year-round. More money will be given if the book is used the following semester.

BOOKSTORE REFUND POLICY

At the beginning of every semester (fall and spring) a student will have one week from the first day of classes to return any textbook purchased that semester for a full refund, provided they have the current semester receipt and the book is in the same condition as when purchased. The closing date for full refunds is posted in both stores, on the Bookstore website, and on receipts every semester.

LOCATION AND HOURS OF OPERATION

The Bookstore is located in Pioneer Hall on the Santa Rosa Campus and across from Mahoney Library on the Petaluma Campus. The Bookstore's Web page has maps at: **www.santarosa.edu/bookstore (http://www.santarosa.edu/bookstore)**.

Santa Rosa Campus normal operating hours: Monday–Thursday, 8:00 am –5:30 pm; Friday, 8:00 am–4:00 pm.

Petaluma Campus normal operating hours: Monday–Thursday, 9:00 am–5:30 pm; Friday, 9:00 am–4:00 pm.

Contact us
Santa Rosa Campus Bookstore: Phone (707) 527-4321, Fax 524-1827; 1501 Mendocino Avenue., Santa Rosa, CA 95401
Petaluma Campus Bookstore: Phone (707) 778-3902, Fax 778-3992; 680 Sonoma Mountain Parkway, Petaluma, CA 94954
E-mail: **bookstore@santarosa.edu (mailto:bookstore@santarosa.edu)**

CALWORKS

The CalWORKs Program at SRJC serves students who are referred from the Sonoma County Human Services Department, Employment and Training Division, SonomaWORKS Program. Eligible students receive TANF (Temporary Assistance to Needy Families, or welfare) assistance. Students receive specialized counseling services provided by SRJC CalWORKs counselors, as well as support with books and supplies while attending college. In addition, funds are available to cover the costs of child care and transportation while students are attending classes and working. The program also serves Marin, and other, county CalWORKs students attending SRJC.

CalWORKs students are eligible for CalWORKs Study, a program that provides paid on-the-job training opportunities at both on- and off-campus job sites. In addition, an employment program provides assistance with job development and placement for CalWORKs students who are completing their educational programs at the College. These employment services assist students in building career ladders toward family self-sufficiency. Students who are receiving welfare or considering applying can contact the CalWORKs office for additional information.

For information about CalWORKs services or welfare regulations and how they impact students, contact the staff at (707) 527-4766 or visit the Web site at **http://calworks.santarosa.edu/ (http://calworks.santarosa.edu/)** .

CalWORKs is located on the third floor of the Bertolini Student Center. Visit Monday, Tuesday, Thursday and Friday, 9:00 am–3:00 pm; Wednesday, 9:00 am–6:00 pm; closed on Fridays in June and July.

CAMPUS TOURS

The office of Student Life, Equity & Engagement provides free campus tours throughout the year while classes are in session. Tours are provided Monday through Friday between 8:30 AM and 3:30 PM. During June and July (Summer Session) tours are available Monday through Thursday. Tours are not provided on Holidays or during Finals Week.

Reservations are required for all tours. Individual tours require reservations at least one week in advance. Group tours for schools and non-profit agencies require reservations at least one month in advance. Tours are also offered on the Petaluma Campus on a limited basis. Please be prepared to provide your name, phone number and the date and time you would like to have the tour. For more information, visit **https://outreach.santarosa.edu/visit-srjc (https://outreach.santarosa.edu/visit-srjc)**.

To make a reservation for an individual tour on the Santa Rosa Campus, contact the office of Student Life, Equity & Engagement at (707) 527-4424.

To make a reservation for a school and group tour, contact the Office of Student Outreach at (707) 527-4863. **(https://outreach.santarosa.edu/visit-srjc)**

To make a reservation on the Petaluma Campus, call (707) 778-3637

CAREER DEVELOPMENT SERVICES

Career planning is an integral part of the education process. Career Development Services offers resources and services to assist students with choosing a major, making career decisions and developing an educational plan to meet career goals. These services are available to enrolled students and alumni.

In Career Development Services students can:

- Browse through a library of career resources
- Use Career software
- Pick up handouts relating to career and job search
- Use the computer lab for job search and career exploration activities
- Attend career development workshops
- Meet with a Career Counselor to:
  - Get help choosing a major
  - Develop an educational plan to meet career goals
  - Career assessment testing
- Meet with a Career Advisor to:
  - Assistance with making career decisions
  - Career exploration activities
  - Learn about job openings
  - Research occupational and labor market information
  - Plan a job search strategy
  - Design a targeted resume
  - Practice for an interview

Each spring the department hosts a Career Expo on the Santa Rosa Campus. Check out our informative Web site with many valuable links at: **https://careerdevelopmentservices.santarosa.edu/ (https://careerdevelopmentservices.santarosa.edu/)**

Career Development Services is located in the Bertolini Student Center. Hours are Monday–Thursday, 8:00 am–5:00 pm and Friday 8:00 am-12:00 pm. (Campus Closed on Fridays during June and July). For information and a counseling or advising appointment, phone 527-4941. Petaluma Campus: Wednesday 9:00 am - 3:00 pm.

CHILDREN'S CENTER

Santa Rosa Junior College Children's Center operates a developmentally appropriate program for the children of students, staff, and faculty. The center also serves as a model demonstration program/lab school for students studying Child Development and as an on-campus teacher training site. The program is funded by the State Department of Education, the Sonoma County Junior College District, and parent fees. Subsidized child care is available to eligible families.
The guidelines for subsidized care are established by the State Department of Education. Fees for these subsidized spots, when applicable, are based on a sliding scale. Nonsubsidized openings are based on a fee scale.

Located in the Call Child Development Center facility on the Santa Rosa Campus, the center serves approximately 100 children ages six months to five years. The program follows the school calendar and is open from 8:30 am until 4:30 pm, Monday–Thursday, and 8:30 am–12:30 pm on Fridays during the fall and spring semesters. The center operates with the school calendar and is closed during the summer.

The program features environments that are child centered, allowing children freedom and independence to choose their play materials. Young children learn through play and exploration. We provide a nurturing and safe environment while respecting diverse family backgrounds and accommodating many different learning styles. Additionally, the center has been designated as a demonstration site for the Program for Infant Toddler Caregivers.

For more information call (707) 527-4224 or visit **http://childdevelopment.santarosa.edu (http://childdevelopment.santarosa.edu)**.

COMMUNITY EDUCATION

The Community Education Department offers enrichment classes to the community designed for personal interest, business, professional development and lifelong learning. These not-for-credit, fee-supported courses include a wide range of topics in creative arts, computer, culture, food and beverage, languages, music, online, recreation, wellness, travel, and more. Two safety programs are also offered, Alive at 25 and Traffic Violator School.

In addition, Community Education coordinates two college programs that contribute to the cultural life of the community, the free Arts & Lectures series, and the Chamber Concert series.

The Community Education Bulletin is published in fall, spring, and summer sessions. The office is open August-May, Monday-Friday 9:00 am-12:30pm and 1:30-5:00pm; summer hours (June and July) are Monday-Thursday 9:00am-12:30pm and 1:30-5:00pm; except closed on school holidays and campus closures.

For more information:
Location: Santa Rosa Campus, Analy Village, Bldg C
Phone: (707) 527-4372
Email: **communityed@santarosa.edu (mailto:communityed@santarosa.edu)**
Visit: **http://communityed.santarosa.edu (http://communityed.santarosa.edu/)**

COMMUNITY ENGAGEMENT

Community Engagement courses enable students to serve their community, pursue their educational experience beyond the College, and further their academic goals on a voluntary basis. For example, participants might volunteer for programs in schools, health-care facilities, community organizations for youth, wildlife services, and environmental projects.

Students wanting to register for Community Engagement must first meet with the Community Engagement instructor in the Work Experience Office. After selecting a nonprofit agency to work with, the student develops goals or objectives with the agency supervisor. At the end of the semester, the student writes a report that reflects upon the volunteer experience.

The Santa Rosa Campus Work Experience Office is located at 4842 Bertolini Student Center. Hours are Monday – Thursday, 8:00 am – 5:00 pm, Friday 8:00 am - 12:00 pm. Call 527-4329.

The Petaluma Campus Work Experience Office is located in Kathleen Doyle Hall, Room PC 214. Petaluma hours vary Monday – Thursday. Call (707) 778-3920 for more information and to setup and appointment. Closed summer and school holidays.

http://workexperience.santarosa.edu/ (http://workexperience.santarosa.edu)

CONTRACT EDUCATION

Santa Rosa Junior College's Contract Education provides customized workforce training solutions to meet the immediate needs of employers, including assessment, on-site customized training, seminars, and workshops. Contract Education specializes in developing short and long-term training solutions designed collaboratively with input from the employer and our training experts. Contract Education is ready to respond to an organization's training needs with a customized solution–whenever and wherever assistance is needed. Topics range from soft skills, technical, communication, supervisory, English as a Second Language, and basic skills. The office is located at Analy Village in the Office of Community and Contract Education. For information, call (707) 527-4811, email to **workforcetraining@santarosa.edu (mailto:workforcetraining@santarosa.edu)**

COUNSELING SERVICES

The mission of the Counseling Department at Santa Rosa Junior College is to provide counseling, instruction, and services that assist individuals in attaining their educational, career training, and personal/life goals. The Counseling Department promotes and supports diversity of culture and learning, and, as an integral part of the educational community, seeks to enhance the lives of those who participate through its programs and enroll in our courses.

Counselors are available on a drop-in and appointment (when available) basis. We will develop long-term academic plans, determine progress toward or eligibility for transfer and/or graduation, deal with probation or dismissal issues, or assist in completing a financial aid or other petitions, etc.

Drop-in is first come, first served with the counselor available at that time. Students can request specific counselors.

Due to the large number of students, there are certain times of the academic year when counseling is impacted usually in January, April, May, August and December. Waiting time may be one to two hours.

To avoid the lengthy wait and rushed atmosphere, students should plan ahead and earn Early Bird Priority 1A registration. To plan for the fall semester, see a counselor during spring before the end of April. To plan for the spring semester, see a counselor before the end of October.

Academic Counseling

Counselors help students clarify their goals and provide accurate and timely information about Career Technical Education programs and transfer and degree requirements. New students are strongly encouraged to meet with a counselor to create a MAP, My Academic Plan. Continuing students should continue to meet with a counselor at regular

intervals to evaluate and adjust their MAP. While creating a MAP, students and counselors will consider educational options together, review requirements, and select appropriate courses and/or options.

Career Counseling

Counselors assist students in the career planning process. This may include exploring interests, values, and goals; researching and reviewing career options; planning appropriate courses to achieve goals; and referring to services, resources, and career development courses.

Personal Counseling

Counselors assist students in exploring personal concerns and life circumstances that may be affecting academic performance. Counselors will refer students to Student Psychological Services in Student Health Services for ongoing personal counseling or to intervene in crisis situations.
Santa Rosa Campus: Bertolini Student Center, (707) 527-4451. Petaluma Campus: Kathleen Doyle Hall, Room PC 216, (707) 778-3914. For further information, visit: **http://counseling.santarosa.edu/ (http://counseling.santarosa.edu/)**

DAY UNDER THE OAKS

One of SRJC's most popular traditions, Day Under the Oaks (DUO) is the College's annual open house and community education fair. For over 30 years, this free and festive event has been held on the Santa Rosa Campus for all Sonoma County residents, offering diverse booths and activities that provide a world of fun and discovery. With something of interest for all ages, DUO features hands-on learning activities, exhibits, and spectacular presentations, including the Native American celebration, live jazz, dance performances, and Planetarium shows. There's delicious food, sports exhibitions, and crafts booths featuring local artists and much, much more! Some of the most popular DUO activities are SRJC's academic and career technical demonstrations that reflect SRJC's broad educational options to students such as cutting-edge technology, culinary arts, physics, and engineering. DUO welcomes nearly 10,000 attendees each year to this informative event in a most beautiful setting. Visit: **https://duo.santarosa.edu/ (https://duo.santarosa.edu/)**.

DENTAL HYGIENE CLINIC

SRJC's Dental Hygiene Clinic is located on the first floor of the Race Building. The clinic is open to students and the community for dental hygiene services, including regular cleaning, deep cleaning with pain management, fluoride treatment, x-rays, and sealants. For further information and appointments, call (707) 522-2844.

DISABILITY RESOURCES DEPARTMENT

The Disability Resources Department (DRD) facilitates equal access for qualified students to community college education through services, academic accommodations and educational assistance courses in accordance with state and federal law. Students with verified disabilities are encouraged to request services through this department. DRD serves students with a variety of disabilities, including, but not limited to: physical, sensory, learning, mental health, intellectual, chronic health and temporary disabilities. Services include specialized academic advising focusing on individual abilities and limitations, disability management, and access technology. Qualified students may be authorized to receive academic accommodations including extra time for exams, mobility assistants, sign language interpreters or note takers. Limited learning disability evaluations may be available to students who are enrolled in a program of study at Santa Rosa Junior College. See schedule of classes for DRD course offerings.

Santa Rosa Campus: Bertolini Student Center, 3rd floor (707) 527-4278.

Petaluma Campus: Jacobs Hall 101 (707) 778-2491.

Hours: Monday – Thursday 8:00 am - 5:00 pm and Friday 8:00 am - 12:00 pm.

For more information visit **https://drd.santarosa.edu/ (https://drd.santarosa.edu/)**.

ACCESS TECHNOLOGY CENTER

The Access Technology Center (ATC) provides referral based assessment and instruction in the use of access technology and alternate media for students with physical, sensory, learning and cognitive disabilities at both the Santa Rosa and Petaluma campuses. The ATC also provides computer access utilizing adapted hardware and software for students with disabilities in SRJC district computer labs and public access locations. For more information, contact (707) 527-4890.

ADAPTED PHYSICAL EDUCATION

The Adapted P.E. Program offers a variety of exercise classes (swimming, water exercise, weight training, and functional movement) for students with physical limitations. Instructors help students develop personalized exercise programs. If one-to-one assistance is needed to participate in class (including getting on and off machines, dressing for swimming, restroom assistance, etc.) it is the student's responsibility to provide an attendant for this. For more information, call (707) 527-4470.

COLLEGE TO CAREER PROGRAM

The College to Career (C2C) program is designed to help students with intellectual disabilities and/or autism obtain employment in the community and in the career area of their choice. C2C is a three-year program culminating in competitive paid employment in Sonoma County for participating students. Serving three cohorts of 20 students annually, C2C is designed to meet the unique needs of students who are challenged with intellectual disabilities and/or autism in postsecondary education and the workforce. C2C is a cooperative program with the California Department of Rehabilitation. As enrollment is limited, admission is competitive. Students who seek admission to C2C are required to submit an application and attend an interview with our C2C Coordinator. Applications and information about the selection process are available on our website.

SUPPORT FOR VETERANS

Returning veterans who experience hearing loss, acquired brain injury, post-traumatic stress, physical disability, or are experiencing difficulty due to other disability are encouraged to utilize the support services of the Disability Resources Department. A Disability Specialist/Counselors is available in the Veteran's Affairs Office for confidential consultation.

TRANSITION TO COLLEGE PROGRAM

Transition to College (TC) is an outreach effort through the Disability Resources Department designed for graduating high school seniors with verified disabilities who plan to attend SRJC. Qualified students will learn about services from DRD; complete the SRJC application and orientation, take ESL placement exams with accommodations, create an education plan and are eligible for priority registration. See our website for additional details.

DISTANCE EDUCATION AND ONLINE LEARNING AT SRJC

Santa Rosa Junior College offers a wide variety of online courses as well as online certificates and degrees (**https://de.santarosa.edu/online-degrees-certificates (https://de.santarosa.edu/online-degrees-certificates)**). Online courses provide an alternative to traditional instruction and allow students to access learning any time anywhere with computers or mobile devices that have access to the Internet. All courses are taught by SRJC faculty within the **Canvas (https://de.santarosa.edu/CanvasHelp)** course management system, and all units, certificates, and degrees are awarded by SRJC. Online learning courses have the same rigor and quality as other classes at the College, but the methods of instruction are customized to the online environment.

Distance Education at Santa Rosa Junior College (**https://de.santarosa.edu/ (https://de.santarosa.edu/)**), hosts online, hybrid (51-99% of class meetings are online) and blended (1-50% online) courses. All online and hybrid classes at SRJC include regular and effective contact between instructor and students as well as rigorous student authentication systems.

The Distance Education Department assists faculty with the creation and maintenance of online classes and instructional materials. Additionally, the department provides tools and resources to support students who participate in online and hybrid classes. The vision for Distance Education supports the overall mission of SRJC with a strong commitment to student learning and success through:

- High quality, student-centered, interactive learning experiences in online, hybrid, or blended courses.
- Collaborative and interdisciplinary approaches to learning that help students develop meaningful and relevant connections in their lives.
- Pedagogy which encourages critical and independent thinking and is responsive to a spectrum of learning styles.
- Flexibility in the scheduling of course offerings to meet student needs.
- Up-to-date and accessibility-compliant delivery formats which equip all students to be successful in an ever-changing technological environment. Online and hybrid courses are assessed regularly to ensure accessibility to persons with disabilities.

For more information about Distance Education and Online Learning, please visit: **https://de.santarosa.edu/ (https://de.santarosa.edu/)**

DISTRICT POLICE

The District Police Department operates 24 hours a day, 365 days a year, and is a fully certified police department in the state of California. The department prides itself in its community-oriented approach to policing and law enforcement. It is responsible for serving and protecting all persons and property on or about the campuses and property of the Sonoma County Junior College District. In addition to investigating crimes and enforcing laws, the department also provides crime prevention and personal safety programs throughout the District. The main police department is located at 2032 Armory Drive, Pedroncelli Center on the Santa Rosa Campus. The department maintains a small substation on the Petaluma Campus in Carole L. Ellis Auditorium, Room PC 305.

For further information about services and the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, see the Police Department Web site at **http://police.santarosa.edu/ (http://police.santarosa.edu/)** or call Police Dispatch at (707) 527-1000.

DREAM CENTER

The Dream Center is a “one-stop shop” in a safe, welcoming environment for undocumented students, mixed-status families, and other immigrant students at Santa Rosa Junior College. Students will receive personalized support as they begin and continue on their college journeys.

Dream Center staff are here to create a welcoming experience while students navigate matters related to AB540 admissions, the California Dream Act Application, the California Promise Grant (fee waiver), DACA, as well as referrals to Assessment, Counseling, EOPS, Student Health Services and other essentials of student success at SRJC. Through a partnership with VIDAS Law, SRJC students also have access to free immigration law services.

For more information, please visit:

https://dream.santarosa.edu (https://dream.santarosa.edu/) or call 707-521-7947 on the Santa Rosa Campus and 707-778-4177 on the Petaluma Campus.

EXTENDED OPPORTUNITY PROGRAM AND SERVICES (EOPS)

The EOPS Program assists low income and educationally disadvantaged full-time students to achieve their academic goals at Santa Rosa Junior College through a variety of support functions that include outreach, bilingual assistance in Spanish, early registration, counseling, advocacy, transition services, book vouchers, and campus child care fees. The EOPS Program attempts to create an environment that is responsive to the needs of students and supportive of cultural diversity throughout the college community.

CARE (COOPERATIVE AGENCIES RESOURCES FOR EDUCATION)

The CARE program offers financial assistance (grants, meal vouchers, vehicle maintenance) for single parents in EOPS who also meet the following eligibility criteria:

- Be currently receiving TANF, Sonoma Works, or CalWORKS cash award for your household
- Be receiving EOPS Services
- Be a single head of household
- Be 18 years or older
- Have a child 13 years old or younger.

CAFYES (COOPERATING AGENCIES FOR FOSTER YOUTH EDUCATIONAL SUPPORT)

The CAFYES program offers financial assistance in the form of housing/rent grants, meal vouchers, gas cards, bus passes, additional support for books and supplies, plus follow-up counseling support and referrals. To be eligible for CAFYES, students need to:

- Be receiving EOPS Services
- Be considered a dependent in foster care on or after their 16th birthday
- No older than 25 years of age at the beginning of the academic year
- Be enrolled in at least 9 units; DRD students may qualify for under 9 units.

For more information, call (707) 527-4383 or visit **https://eops.santarosa.edu/ (https://eops.santarosa.edu/)**

FINANCIAL AID

Financial aid may be available for expenses that are directly related to attending college when these costs are more than students or their families can afford. The eligibility for most financial aid is based on financial need, which is determined by the Financial Aid Office from information submitted by the student and/or family on the Free Application for Federal Student Aid (FAFSA). Students are urged to complete applications by March 2 prior to each academic year, although FAFSAs are accepted and most aid is available until the following spring. Applicants must also show satisfactory academic progress and be enrolled toward transfer, a certificate, or a degree objective. Certificate programs must be 16 or more units in length to be eligible for financial aid.

General information about grants and loans is available in the Financial Aid Office. Various dollar amounts shown and regulations regarding financial aid are subject to change without notice due to governmental, state, and local requirement changes. Financial aid brochures are also available for more details.

Financial Aid Eligibility

Not all SRJC certificate programs are eligible for purposes of federal financial aid payments. To be considered eligible, a program must be a minimum of 15 weeks and 16 units in length, must have secured Chancellor's Office approval prior to the term of aid being paid, and must be included on SRJC's Federal Aid Participation Agreement.

California College Promise Grant Fee Waivers

The California College Promise Grant (CCPG) Fee Waiver, available to eligible students, will waive your per unit enrollment fee at any California community college throughout the state. Students who are residents of California should complete the FAFSA to be automatically reviewed for CCPG fee waiver eligibility. Out-of-state and exempt students can also file a FAFSA and will be reviewed for eligibility

Students who have an AB540 waiver approved by the SRJC Admissions and Records Office, and students who are foreign and exempt, can file a California Dream Application: **https://financialaid.santarosa.edu/dream-act (https://financialaid.santarosa.edu/dream-act)** for review of CCPG fee waiver eligibility.

CCPG Fee Waiver Changes Effective Fall 2016

Minimum requirements for maximum success.

Whether you want to move into a career or move on to a four-year university, California community colleges want to help you achieve your educational goals. Once you've qualified for the CCPG Fee Waiver, it's important to ensure that you're meeting the academic and progress standards in order to avoid losing it.

Academic - Sustain a GPA of 2.0 or higher

If your cumulative GPA falls below 2.0 for two consecutive primary terms (fall/spring semesters, or fall/winter/spring quarters), you may lose your fee waiver eligibility.

Progress - Complete more than 50 percent of your coursework

If the cumulative number of units you complete is not more than 50 percent in two consecutive primary terms (fall/spring semesters, or fall/winter/ spring quarters), you may lose your fee waiver eligibility.

Combination of Academic and Progress Standards

Any combination of two consecutive terms of cumulative GPA below 2.0, and/or cumulative unit completion of not more than 50 percent may result in loss of fee waiver eligibility.

How will I know?

You'll be notified within 30 days of the end of each term if you are being placed on either academic (GPA) and/or progress (course completion) probation. Your notification will include the information that a second term of probation will result in loss of fee waiver eligibility. After the second consecutive term of probation, you may lose eligibility for the fee waiver at your next registration opportunity.

How to regain eligibility

If you lose eligibility for the CCPG Fee Waiver, there are a few ways that you can have it reinstated:

- Improve your GPA or course completion measures to meet the academic and progress standards
- Successful appeal regarding extenuating circumstances
- Successful appeal based on significant academic improvement
- Not attending your school district for two consecutive primary terms (fall/spring semesters, or fall/winter/spring quarters) The appeals process for extenuating circumstances includes:
- Verified accidents, illness or other circumstances beyond your control
- Changes in economic situation
- Evidence of inability to obtain essential support services

- Special consideration factors for CalWORKs, EOPS, DSPS and student veterans
- Disability accommodations not received in a timely manner. If you have questions or need assistance, please contact the financial aid office or registrar at your college.

Please note that foster youth and former foster youth (age 24 years and younger) are not subject to loss of the CCPG Fee Waiver under these regulations.

For more information about the CCPG Fee waiver visit: **http://www.icanaffordcollege.com/ (http://www.icanaffordcollege.com/)**

Federal Pell Grants

Pell Grants are federal grants to assist low and middle income students who are enrolling in any number of units. Awards are granted based on full-time enrollment, but will be pro-rated for students who enroll three-quarter time, half-time, and less than half-time.

FSEOG

Federal Supplemental Educational Opportunity Grants are another form of federal grant for the exceptionally financial needy and are given to the lowest income students. FSEOG grants vary.

EOP&S

Extended Opportunity Program and Service Book Vouchers are for full-time students who are educationally disadvantaged and eligible for CCPG fee waiver A or B. Other services include priority registration, book awards, and counseling. Visit **http://eops.santarosa.edu/ (http://eops.santarosa.edu/)**

Cal Grants

These are state grants that are awarded by the California Student Aid Commission in Sacramento and paid through the College. They are based on need, GPA and program of study. The deadline to apply is March 2 prior to the year of enrollment.

Cal Grant B

These grants can continue for a total of five years, including when a student transfers to a four-year school. Applicants must be low income. There are also awards for students who are transferring from a community college to a university.

Cal Grant C

Assists Career Education students from low and middle income families.

Chafee Grant

Up to $5,000 per year is available for former foster youth who are California residents. They must have remaining financial need and meet certain age and Independent Living Program (ILP) requirements.

Loans

Loan repayment begins when the student is no longer enrolled at least half time (6+ units).

Federal Direct Loans

The funds for Federal Direct Loans come from the federal government. Students must be enrolled at least half time in an eligible program of study, and must apply using the FAFSA and the SRJC Loan Request Form. The interest rate is fixed at 4.53% percent. Interest is paid while the borrower is enrolled at least half time for a subsidized loan. With a non-subsidized loan, interest accrues during the in-school period.

Short-Term Loans

A limited number of small short-term loans are available for unforeseen emergencies. For current availability, check with the Financial Aid Office.

Scholarships

For information about scholarships, see Section 5.

Related information can also be found in this Catalog under “Scholarships,” “Tuition,” “Employment,” and “Extended Opportunity Program and Services.”

More information about financial aid programs and policies can be found on the Financial Aid web pages or from the Financial Aid Office, Plover Hall, Santa Rosa Campus. Hours 8:00 AM–5:00 PM, Monday through Thursday 8:00 AM–5:00 PM and Friday, 8:00 AM–12:00 PM. Call (707) 527-4471 or visit **http://financialaid.santarosa.edu (http://financialaid.santarosa.edu/)**

Financial Aid Services are also available at the Petaluma Campus, (707) 778-2461. Hours are Monday, Tuesday, and Thursday, 8:00 AM–5:00 PM, Wednesday, 8:00 AM–7:00 PM. Closed on Friday.

FIRST YEAR EXPERIENCE (FYE)

Counseling 10 provides an environment for first time college students to discover what college is about. The FYE Program provides students with the knowledge to move forward and succeed at SRJC and beyond!

Why FYE?

- Build relationships with other students who are sharing the same experiences as you
- Begin to connect with the College and the community through volunteer opportunities
- Receive individual counseling from your instructor to develop an educational plan
- Feel supported as you progress through your first semester of college

For information about the FYE program, call the Counseling Department at (707) 527-4451.

FORENSICS TEAM

Within the Department of Communication Studies, SRJC offers participation on its highly acclaimed speech and debate team. Through enrollment in Speech 52 A, B, C, and D, students receive instruction and practice for intercollegiate competitions in public speaking, debate, readers theatre, oratory, dramatic interpretation, informative and extemporaneous speaking. The SRJC parliamentary debate team has ranked among the top six community colleges in the nation for nine consecutive years and has a national reputation for excellence.

Visit us at: **http://comm-studies.santarosa.edu/speech-and-debate-team (http://comm-studies.santarosa.edu/speech-and-debate-team)**

GALLERY AND MUSEUM

ROBERT F. AGRELLA ART GALLERY

The Robert F. Agrella art gallery serves as a resource to develop an appreciation and understanding of the visual arts. As an extension of the educational program of the Art Department, the gallery serves both the Santa Rosa Campus and community through its series of exhibits, informational brochures, and lectures. The gallery presents works of excellence in many media with an emphasis on artists not generally seen in this area.

Located on the first floor of the Doyle Library, the gallery is readily accessible during its scheduled exhibits. Monday through Thursdays, 10:30 am to 4:00 pm (closed Fridays, Saturdays, Sundays and School Holidays).

JESSE PETER MUSEUM

The Jesse Peter Museum serves to communicate the beauty and uniqueness of native cultures of the world. Changing exhibits feature both traditional and contemporary art and technology of Native Americans, as well as Latino, Asian, and African cultures. The Elsie Allen Family Collection of Pomo basketry is always featured. The Museum offers self-guided tours to community and educational groups. Traditional dances and informative lectures are sponsored during the school year.

The museum is an integral part of the Native American Studies and Anthropology curricula of the Behavioral Sciences Department. The museum staff works closely with the local Native American community.

Housed in Bussman Hall north of the Administration Building, the museum is open Monday – Friday, 10:00 am – 3:30 pm and closed Fridays. For tours and information, call (707) 527-4479. The museum is closed on weekends, all school holidays, and limited hours during summer. Visit: **https://museum.santarosa.edu/ (https://museum.santarosa.edu/)**.

GATEWAY TO COLLEGE ACADEMY (GTC)

Gateway to College Academy (GtC) is an Early College High School, which is an innovative partnership that enables students to obtain a quality high school education while receiving dual college credit and invaluable access to college courses and services. Gateway to College prepares students for academic success and career readiness by maintaining high academic standards while providing high individual support. Students are placed in small learning communities exclusively with other GtC students and instructors where they receive comprehensive services including job referrals, tutoring, health care, housing and more. These services continue throughout the program to eliminate barriers that often interfere with students persisting towards their goals. SRJC enrollment fees are exempted for high school dual enrollment students and all required SRJC textbooks are provided at no cost to GtC students.

Gateway to College admits youth, 16 to 20 years old whom are California residents. Students attend both high school and college classes Monday through Friday exclusively at the SRJC Petaluma campus in a program that blends high school and college into a coherent educational program. The selection of student courses are guided by their personal education plans and lead to the completion of a high school diploma as well as SRJC certificate, associate degree, or university transfer.

Gateway to College Academy is located at the SRJC Petaluma campus in Kathleen Doyle Hall, 2nd floor, room 236. For further information, contact (707) 778-3630, or **Gateway@santarosa.edu (mailto:Gateway@santarosa.edu)**.

https://gtc.santarosa.edu/ (https://gtc.santarosa.edu/)

HEALTH SCIENCES

WILLIAM B. RACE HEALTH SCIENCES BUILDING

The William B. Race Health Sciences Building houses Health Sciences programs and Student Health Services. It provides state-of-the-art instructional facilities for SRJC's Health Sciences Programs: Medical Assistant, Nurse Assistant, Radiologic Technology, Associate Degree in Nursing (RN), Dental Assistant, Dental Hygiene, Pharmacy Technician, Nutrition & Dietetics, Dietetic Technician, Certified Dietary Manager, Healthcare Interpreter, Public Health Degree, and Summer Health Careers Institute.

The building houses a 30-bed nursing skills laboratory, an ambulatory skills laboratory with exam rooms, a fully operational digital X-ray unit for training Radiologic Technologists, a pre-dental clinic laboratory, and a mock pharmacy. The Allied Dental Health Programs' state-of-the-art clinic is where all SRJC students, faculty, and community members are welcome to receive low-cost dental x-rays and cleanings. Oral health plays an important role in your general health and wellness. Our students are happy to provide these services. Appointments may be scheduled by calling (707) 527-2844.

The Health Learning Resource Center (HLRC) serves the health education needs of Santa Rosa Junior College students. The 30-station educational technology supports the Health Sciences Programs including standardized testing required for State and National Licensing. The center is open, Monday-Friday, 8:00 am-5:00 pm. Call the HLRC at (707) 527-4207.

The William B. Race Health Sciences building is truly an asset to both Santa Rosa Junior College and the community. For information about the Health Sciences Department, call (707) 527-4272 or visit **https://healthsciences.santarosa.edu/ (https://healthsciences.santarosa.edu/)**.

HIGH SCHOOL CAREER PATHWAYS TO SRJC

In partnership with local high schools, SRJC helps connect high school Career Pathways to college Career and Technical Education (CTE) programs to give students a head start on college and careers. Career Pathways are coherent sequences of high school Career & Technical Education (CTE) courses that prepare students for careers and continued education. Many feature articulation with like SRJC courses. Articulation is the alignment and comparability of coursework between two levels of education, such as high school and community college. It is established through discipline specific faculty-to-faculty collaboration. For example, SRJC Automotive Technology instructors meet with their high school counterparts to confirm that concepts and skills being taught in the high school Automotive Technology courses are comparable to those of the College. Once the determination is made that coursework is sufficiently similar, formal articulation agreements are established. Students successfully completing the articulated high school courses have opportunities to earn college credit.

Benefits of Articulation: Students earn a head start on college and their careers, saving time and money by skipping redundant coursework in which they've already demonstrated mastery. CTE faculty collaborate, share resources, conduct joint industry advisories, and update and align curriculum, which provide students with relevant career skills and a smooth transition to postsecondary and career success.

High School Career Pathway and articulation activities are funded by the CTE Transitions grant under the federal Carl Perkins Career and Technical Education Act administered through SRJC and other initiatives.

For more information about High School Career Pathways to SRJC, contact Jerry Miller. Senior Dean, Career & Technical Education & Economic Dev.

(707) 524-1506 or e-mail **jmiller@santarosa.edu (mailto:jmiller@santarosa.edu)**.

http://cte.santarosa.edu/high-school (http://cte.santarosa.edu/high-school)

HIGH SCHOOL EQUIVALENCY PROGRAM (HEP)

The High School Equivalency Program (HEP) helps migratory and seasonal farmworkers (or children of such workers) who are 17 years of age or older and not currently enrolled in school to obtain the equivalent of a high school diploma and, subsequently, to gain employment or begin postsecondary education or training. The program serves more than 5,000 students throughout the nation annually. HEP is funded through a grant from the U.S. Department of Education, Office of Migrant Education. **https://hep.santarosa.edu (https://hep.santarosa.edu%20/)**(707) 527-4978.

HISPANIC SERVING INSTITUTION, META 4

SRJC was formally designated an HSI by the United States Department of Education in April 2014. SRJC was awarded a grant in October 2014 with the purpose to expand educational opportunities and improve the academic attainment of Hispanic and low-income students, and to expand and enhance the academic offerings, program quality, and institutional stability of colleges and universities that are educating the majority of Hispanic college students.

In an effort to increase academic opportunity and attainment for Hispanic and low-income students, Santa Rosa Junior College is introducing the Multicultural Education Transfer Acceleration or Meta4 goals;

- Meta 1: Increase access, retention, and degree or certificate completion for Hispanic and low-income students;
- Meta 2: Increase the number of Hispanic English Learners students enrolling in, and successfully completing, transfer-level composition courses;
- Meta 3: Provide Hispanic and low-income students access to new technology advising and planning tools to increase their academic success, retention and graduation rates; and
- Meta 4: Improve the transition and continuing success of Hispanic and low-income students to the demands of college with an emphasis on improving student support and academic success.

META 4 is funded by a US Department of Education, Office of Post-Secondary Education, Title V grant.

HONOR SOCIETIES

ALPHA DELTA NU

To promote scholarship and academic excellence in the profession of nursing, the Organization for Associate Degree Nursing (OADN), has established the Alpha Delta Nu Honor Society and has made provisions for the establishment of Institutional Honor Society Chapters.

The objective of the OADN Alpha Delta Nu Nursing Honor Society shall be to recognize the academic excellence of students in the study of Associate Degree Nursing. The society shall encourage the pursuit of advance degrees in the profession of nursing as well as continuing education as a life-long professional responsibility. Additionally, the society shall participate in the recruitment of qualified individuals into the profession of nursing. Associate Degree in Nursing students who are enrolled in their second semester of the program are invited to apply if all required qualifications are met.

ALPHA GAMMA SIGMA (AGS)

Alpha Gamma Sigma is the statewide California Community College scholastic honor society. The purpose of Chapter Theta at Santa Rosa Junior College is to promote and recognize scholarship, to develop programs of cultural and social enrichment, to promote service to the College and to the community, and to emphasize the development of leadership, character, and judgment.

LAMBDA NU (LN)

Lambda Nu (LN) is a national honor society for the radiologic and imaging sciences.

The mission of the California Epsilon Delta Pi chapter of Lambda Nu chartered in 2016, is to:

- Foster academic scholarship at the highest academic
- Promote research and investigation in the radiologic and imaging sciences;
- Recognize exemplary scholarship.

Lambda Nu's name is derived from the lower case Greek characters in the formula ln, which represents the physics of the inverse relationship between wavelength and frequency an essential parameter across the diversity of modalities comprising the professions. Lambda Nu uses the upper case Greek characters Lambda and Nu to represent the inverse relationship and delicate balance required between the art and the science inherent in the radiologic and imaging sciences.

Membership in the California Epsilon Delta Pi chapter of Lambda Nu is limited to full time Santa Rosa Junior College radiologic technology students who have an overall GPA of 3.0 or higher after one full semester in the radiologic technology program.

NATIONAL SOCIETY OF LEADERSHIP AND SUCCESS (NSLS)

The National Society of Leadership and Success is the nation's largest leadership honor society. Students of the Society chapter at SRJC Petaluma are selected for membership based on academic standing, leadership potential, and leadership achievement. Candidacy is a nationally recognized achievement of honorable distinction. Membership is for life and provides access to benefits including scholarships and awards, exclusive on-campus events, employer recruitment through an online job bank, discounts on computers, textbooks, grad school prep courses, insurance and much more. Inducted members complete a leadership program consisting of the Orientation, a Leadership Training Day, three Speaker Broadcasts, three Success Networking Team meetings, and an Induction Ceremony where they receive their Certificate of Leadership Training. For more information contact Deborah Ziccone at **dziccone@santarosa.edu (mailto:dziccone@santarosa.edu)** or (707) 778-3637.

PHI THETA KAPPA (PTK)

Phi Theta Kappa is an internationally renowned two-year college honor society. The mission of the Beta Gamma Delta chapter of Phi Theta Kappa, chartered in 1995, is to recognize, support, promote, and reward those students who maintain a standard of academic excellence.

The goals of Phi Theta Kappa are to support any student who is trying to achieve academic excellence, to encourage all students to set high standards for themselves, to provide a forum in which those students may find a sense of community, to bring a body of talent and skill to the task of improving our larger community and, to represent Santa Rosa Junior College to the best of students' ability by upholding the Phi Theta Kappa hallmarks of "Scholarship, Leadership, Fellowship, and Service." A student must have a 3.5 GPA in order to be inducted. Inquiries pertaining to either society should be made at the Student Affairs Office.

HOUSING – STUDENT OFF-CAMPUS HOUSING ASSISTANCE (SOCHA)

The Student Resource Center maintains an online housing board with current listings of available off-campus housing. Other than providing these services, the College assumes no responsibility for off-campus housing. Room and board and apartment costs vary greatly. Housing is limited and students should make arrangements well in advance of enrollment. Information about SOcHA can be found at **https://housing.santarosa.edu/. (https://housing.santarosa.edu/)**

LEARNING COMMUNITIES AT SRJC

Learning communities are linked courses; the same group of students enroll in two or more classes. Learning communities support students' academic success, build student community, and provide opportunities for campus and community engagement.

1. SMART START Learning Communities offer 300-level students highly engaging learning environments to prepare them for college-level work.

2. PUENTE is a state of California transfer program. Students participate in a year-long multicultural learning community focused on achieving their goal of transferring to a 4-year college. Students enroll in English 100 and Counseling 10 in the fall and English 1A and Counseling 80 in the spring.

3. INTERDISCIPLINARY Learning Communities offer integrated curriculum to help students develop the academic skills and content mastery needed to succeed in both classes.

4. CONNECTIONS is a multicultural Degree Completion Program designed to prepare Latino/Latina and/or low-income SRJC students to complete an Associate Degree for transfer or a Degree/Certificate in 3 years or less. Connections will help students become successful by connecting them to SRJC student support services and resources.

5. UMOJA focuses on student success through Academics, Counseling, and career Mentorship. In the fall, students enroll in Umoja linked courses: English 100, History 30, and are encouraged to take Counseling 10. The program is open to all students interested in completing a degree/transferring, meeting with the Umoja counselor, and participating in cultural and personal enrichment activities.

6. ASIAN PACIFIC AMERICAN STUDENT SUCCESS: Mana is the mind, one's life force, and nourishment, and in this learning community, students will use their Mana to find success in school. Course themes and topics focus on the Asian and Pacific diaspora, and all SRJC students are invited to enroll. Students enroll in Counseling 10 (First Year Experience) and English 309 (Reading and Writing) in the fall and Sociology 30 (Race and Ethnic Relations), and English 1A (College Composition) in the spring. Students are also encouraged to enroll in Food and Nutrition 75 (Principles of Food) in the spring.

Students enroll in Learning Communities because they benefit from:

- Meeting new students and developing new friendships
- Team-taught courses in learning-centered classrooms
- Numerous opportunities for college and community involvement

7. OUR HOUSE: Our House learning community is a multicultural Degree Completion Program designed to prepare first generation and/or low-income students to complete an Associate Degree for transfer or a Degree/Certificate in 3 years or less. The Our House Learning Community will help students become successful by connecting them to SRJC student support services and resources.
For more information about Learning Communities call New Student Programs at (707) 527-4375 and/or visit: **http://learningcommunities.santarosa.edu (http://learningcommunities.santarosa.edu/)**

LIBRARY AND MEDIA SERVICES

The Santa Rosa Junior College Libraries cultivate dynamic student-centered learning environments designed to foster student success. We create access to quality resources and instruct students in research skills that extend learning, enhance critical thinking, and inspire intellectual discovery.

ABOUT THE LIBRARIES

There are two libraries in the district, the Doyle Library on the Santa Rosa campus and the Mahoney Library on the Petaluma campus. The Frank P. Doyle Library is located in the heart of the Santa Rosa campus. The four-story, 140,000-square foot building offers abundant individual and group study space, 280 public access computers and a host of print and digital resources. The Herold Mahoney Library is located on the Rotary Plaza of the Petaluma campus facing south. The two-story, 35,000-square foot building houses a dynamic print and digital collection, 300 reader seats and an art gallery. Both sites support the entire spectrum of curriculum offerings from basic skills to general education to career and technical education (CTE).

Both libraries offer technology-rich learning commons that provide flexible furniture and spaces for students to study, connect, learn, and create knowledge. Group Study Rooms fostering collaboration using wireless presentation technologies to enable multiple users to instantly connect and share assignments with a phone, tablet, or laptop to large screen displays. Noise zoning allows students to find the optimal study environment to fit their needs. Talk Zones are for conversations and group study. Quiet Zones are for those seeking quiet with the occasional low-volume conversation. Silent Zones are for those looking for silence and no conversations. Doyle Library also provides a suite of digital media labs and an open computer lab, which give students opportunities to practice using innovative technologies or specialized software they learn about in the classroom.

RESEARCH SUPPORT

The libraries provide thousands of relevant and credible resources of value for academic research projects. These resources include print and online collections that contain books, articles, images, videos and more. Both libraries house a Reserve collection of current textbooks as well as quiet and collaborative study areas. Students can also checkout laptops, iPads and calculators. Library hours can be found at: **https://libraries.santarosa.edu/hours (https://libraries.santarosa.edu/hours)**.

A librarian is available, online or in-person, to assist students with research and information during all hours that the libraries are open. In addition, librarians teach a 1 unit course called Introduction to Information Literacy, which is an Associate degree requirement for SRJC. Librarians offer scheduled and drop in workshops on research skills, preparing a bibliography/works cited and other specific research tools. Students can also schedule 30-minute, one-on-one research assistance sessions with a librarian for individual support. For more information about the libraries and the resources and services we offer, please visit our website: **http://libraries.santarosa.edu. (http://libraries.santarosa.edu.%20/)**

MEDIA SERVICES

Media Services is housed within the library on both the Santa Rosa and Petaluma campuses. Each location features an expansive media collection to support instruction. Students can view assigned media material in-house or online. For more information and current hours of operations, please visit Media Services website at **https://media.santarosa.edu/ (https://media.santarosa.edu/)**. Media Services also offers expertise with educational technology, learning space design/support, and a wide array of audiovisual, production and technical skills for campus events and projects.

LUMAFEST

LumaFest is SRJC Petaluma's annual open house and community education fair held each October. LumaFest features exhibits and informational booths, food, demonstrations, contests, and activities that highlight the City of Petaluma's annual El Dia de los Muertos cultural celebration. In addition, this family-friendly, all-weather event hosts live

musical/dance entertainment, movies and free performances in the Carole L. Ellis Auditorium, a chance to meet “Fresno” the Giraffe and Roscoe the Bear Cub, and interact with educational programs on campus, all while enjoying the spectacular sweeping views of Sonoma Mountain. Call 707-778-2415 for more information.

https://lumafest.santarosa.edu (https://lumafest.santarosa.edu/)

MESA CALIFORNIA COMMUNITY COLLEGE PROGRAM

The Mathematics, Engineering, Science Achievement (MESA) Community College Program at Santa Rosa Junior College exists to increase the number of students transferring to a four-year college or university as engineering, science and technology majors.

The MESA Program offers academic assistance, transfer advising, and leadership and career development services specific to science, technology, engineering and mathematics (STEM) transfer majors. The MESA Program utilizes an Industry Advisory Board to work closely with local companies, providing professional development enrichment activities.

The MESA Community College Program serves students who:

1. Declare a calculus-based science transfer major,
2. Develop a long-term educational plan that supports transfer in a STEM discipline, and
3. Satisfy specific academic and economic eligibility criteria.

Students must complete an enrollment process in order to receive MESA services.

Students accepted into MESA agree to be engaged in activities that support the main components of the program, build an academically-based peer community on campus, and develop individual and team-building leadership skills. This STEM community of learners is what sets MESA apart from other programs.

MAIN COMPONENTS OF THE MESA PROGRAM

- STEM specific orientation workshops for new and continuing students
- Academic Excellence Workshops, structured study groups and drop-in peer tutoring
- Career advising and professional development workshops
- Access to undergraduate research programs and projects
- Assistance in the transfer process
- Participation in STEM professional organizations, guest speaker presentations, and STEM industry tours

Interested students should visit the MESA Center located in Bertolini room 4832 or call (707) 524-1859 , or visit our website: **https://mesa.santarosa.edu/ (https://mesa.santarosa.edu/)**. For more information about the statewide MESA Community College Program please visit: **https://mesa.santarosa.edu/ (https://mesa.santarosa.edu/)**

OLDER ADULT PROGRAM

SRJC offers free noncredit educational courses designed specifically for older adults as part of its lifelong learning program. Courses include art, autobiography, discussion group, fitness, and music. Since 1968 our Older Adults Program courses have provided an opportunity for personal growth and development, group interaction, mental stimulation and physical activity. Classes are held at various locations throughout Sonoma County. Interested individuals may sign up for

a class by going directly to the location and the instructor will provide application and registration material or go online at **https://older-adults.santarosa.edu/ (https://older-adults.santarosa.edu/)**. Select schedule of classes > Term> "O" for Older Adults. For further information please contact the Older Adults Program at (707) 527-4533.

OUR HOUSE INTERCULTURAL CENTER (SRJC PETALUMA)

The Intercultural Center's mission is to promote a campus culture of inclusion and equity at SRJC Petaluma through educational and social programming, support of identity-based clubs and organizations, and the provision of services. Our House is also home to Dream Center services, which assist undocumented students in obtaining educational financing available under state and federal law. Call 707-778-2470 for more information.
https://petaluma.santarosa.edu/our-house-intercultural-center (https://petaluma.santarosa.edu/our-house-intercultural-center)

PEER ASSISTED LEARNING SPECIALIST (PALS) PROGRAM

SRJC's PALS Program seeks to increase student knowledge and skills by fostering community, agency and persistence in the classroom. Students who have successfully completed courses are invited back to mentor and tutor current students so that they may find greater academic success. PALS attend class, and they hold individual tutoring sessions outside of class, as needed. In addition, PALS provide grading assistance to the instructor.

PERFORMING ARTS

MEDIA

The Media Program in the Communication Studies Department offers a variety of activities, including practical workshop courses in film, video, and radio. Students create original film/video, projects, write film scripts, and produce radio dramas. The Media Internship Program with local television and radio stations is unique among two-year colleges in California. Graduates of the Media Program are employed in communication positions throughout the west. The Communication Studies Department grants a Certificate of Completion with an emphasis in Media.

MUSIC

Music opportunities are plentiful and varied. Performing organizations available to all students include choirs (both large and small), jazz singing, jazz bands, concert bands, orchestras, wind, string, and keyboard ensembles. Classical and popular singing classes, synthesizer, musical theatre, and improvisational jazz technique classes are available. Traditional piano, theory, history, and sight singing courses are open to students.

THEATRE ARTS

Theatre Arts classes are exciting and challenging for all students. Theatre classes offer a wide range of topics from theatre history and character analysis to stage lighting, theatre design, and management. For students with specific interests, Theatre Arts offers specialized training through a certificate program in the fields of acting, costuming, makeup, stagecraft, or stage management. All students are encouraged to participate in our productions as performers, back stage technicians, or as part of the front of house management team. Theatre Arts supports the Student Theatre Guild and offers original productions of student work. A large variety of productions are presented throughout the school year as part of the regular instructional program and during the summer by a nationally acclaimed preprofessional training program, Summer Repertory Theatre. Auditions for school year shows are generally held in the

first 10 days of each semester. Participation in Summer Repertory Theatre is based on special auditions and interviews held in February and March of each year. Don't miss the opportunity to participate in a program that will change the shape of your life.

SUMMER REPERTORY THEATRE FESTIVAL

Summer Rep is a complete and extensive practicum in all aspects of stage production. The program combines the talents of the professional directing, design, and production staff with outstanding students in acting, design, technical theatre, dance, music, and management. The ensemble will mount five productions, which are performed in full rotating repertory six days a week beginning in mid June. Company members face the challenge of putting theory to the test and learning to work continuously under pressure in a professional system. Summer Rep offers professional production values and a positive and supportive work environment. The company also has the advantage of making contact with and working alongside professional staff members and other students from theatres and colleges throughout the country. Since 1972, Summer Rep has enrolled over 7,000 students who have received advanced training important to their professional goals. These students have gone on to employment with major schools, in the television and movie industry, and in theatres across the nation as teachers, actors, designers, technical directors, costumers, box office managers, theatre managers, and directors. Summer Rep is committed to helping our students further their careers once they leave Summer Rep . Events to facilitate this include auditions with area casting directors, portfolio review with visiting professionals, and targeted apprenticeships for our skilled artisans/technicians.

SRT is a truly dynamic and unique program; it is a fantastic training ground, a great place to meet people and make connections, and home of some of the best theatre in the North Bay. Enrollment in the program is by audition or interview only. For more information, contact James Newman at (707) 527-4221, or visit **www.SummerRep.com (http://www.summerrep.com/)**. 708 Elliott Ave.

For more information, contact Leslie McCauley at (707) 527-4248, or visit: **https://theatrearts.santarosa.edu/ (https://theatrearts.santarosa.edu)**; Lark temps room 2205T.

PINER EARLY COLLEGE MAGNET PROGRAM

Santa Rosa City Schools and Santa Rosa Junior College share a unique partnership known as the Piner High School-SRJC Early College Magnet Program. This partnership provides qualified high school students dual enrollment opportunities, allowing them to earn college credits while earning their high school diploma. This exceptional educational opportunity establishes a four-year cohort providing Early College Magnet Program students with accelerated learning in the company of other college students.

Piner Early College Magnet Program students receive special counseling services from both the high school and SRJC. Each student is provided with a personalized four-year education plan. Students also complete SRJC counseling courses to prepare them for college success.

As high school juniors and seniors, students attend four periods at Piner High School and enroll in as many as two college courses per semester at the SRJC Santa Rosa Campus. Their courses of study are guided by their personal education plans and lead to the completion of a certificate, associate degree, or university transfer.

SRJC enrollment fees are exempted for high school dual enrollment students and all required SRJC textbooks are provided at no cost to students enrolled in the Piner Early College Magnet Program. A designated SRJC counselor provides support and instruction for the students, while an SRJC staff member coordinates the Program for the college. The high school supports the program by providing bus transportation to SRJC's Santa Rosa Campus, staff for high school counseling and coordination of the program for the high school, as well as marketing and outreach for student recruitment.

For further information, contact: Karen Coster, Early College Magnet Program Coordinator, Piner High School, at (707) 528-5230 or kcoster@scrs.k12.ca.us.

PLANETARIUM

The Santa Rosa Junior College Planetarium offers professional presentations to students of all grade levels and the community. The goal in presenting these programs is to stimulate interest and curiosity in the Universe by combining education and entertainment.

With a dome of 40 feet in diameter and 27 feet high and a capacity to seat 90, the Planetarium is one of the largest space science facilities in the California Community Colleges System. Each program contains spectacular visual effects due to the use of analog slides which provide superior image quality. This makes it a unique facility of which the community can be proud.

The function of the Planetarium is three-fold: an instructional facility for SRJC students, field trip programs for elementary, junior high, and high school students, and a theater for public weekend shows. All the programs include up-to-date information on the various topics covered.

Call (707) 527-4465 for a recorded announcement of programs or visit: **https://planetarium.santarosa.edu/ (https://planetarium.santarosa.edu/)** for details.

PUENTE PROJECT

The Puente Project is a program of English writing instruction, counseling, and mentoring for community college students who plan to transfer to a university.

The program involves a two-semester sequence of Reading/Composition that focuses on the Chicano/Latino experience. Counseling courses are also offered to help students with personal development and study skills. Members of the professional community provide mentoring. Additional program activities are designed to help students participate fully in academics and career preparation.

Students are admitted to the program each year through a first-come, first-served basis. Students must be eligible for English 100 based on assessment or prerequisite coursework. Students must also enroll in designated counseling courses and demonstrate commitment to transfer and to participation in program activities for one full year. Computer literacy and word processing instruction, including an emphasis on desktop publishing skills and Internet research, are part of the curriculum.

Puente is located in Bertolini Student Center, 2nd floor Counseling Office. For further information, contact: The Puente Office at (707) 521-7864, or the Petaluma Campus, Kathleen Doyle Hall, at (707) 778-3916; **http://puente.santarosa.edu/. (http://puente.santarosa.edu/)**

STUDENT EMPLOYMENT

The Student Employment office assists SRJC students and alumni who are seeking employment both on and off campus. Services and resources include:

ON-CAMPUS EMPLOYMENT SERVICES

On-campus employment provides students the opportunity to acquire and develop general work habits, earn extra money while enrolled in college and to assist departments in maintaining programs. Student Employment provides support services for SRJC student employees including Federal Work Study students throughout their employment. Students must be enrolled part time to work on campus, 6 units in Fall and Spring semesters and 3 units during the Summer semester. Hours of work are limited to 25 hours a week, and 20 hours for international students. Students are employed at four District locations, SRJC Santa Rosa, SRJC Petaluma, Shone Farm and Southwest Center.

ONLINE STUDENT JOB BOARD

- Jobs for both entry level and the highly skilled
- Part-time and full-time job listings
- Full-time career opportunities for city, county, and state positions
- Resume templates
- Employer resume search
- Job search and career videos
- Career advice documents and podcasts

For more information, contact:
Student Employment Office
Bertolini Student Center 3rd Floor
527-4476

Hours: Monday-Thursday 8:00 am - 5:00 pm and Fridays 8:00 am - 12:00 pm

Closed Fridays in June and July

https://studentemployment.santarosa.edu/ (https://studentemployment.santarosa.edu/)

STUDENT HEALTH SERVICES

Good health is essential to student success. Student Health Services contributes to the well-being and educational success of Santa Rosa Junior College students through a variety of health-related services. The department provides support services for the entire college community through communicable disease control, risk management activities related to accidents and behavioral incidents, optimizing maximum health insurance coverage as possible for students, maintaining referral lists, and more. The department's web page provides online learning activities, access to an interactive online health magazine and health education and promotion resources. Health events and classroom presentations on health issues are provided. Individual students may be supported with a range of direct health services in the health centers to address barriers impacting their educational success.

Student Health Services provides direct medical, mental health, administrative and community agency services at 4017 Race Building in Santa Rosa. At SRJC Petaluma, medical and mental health are located at 610 Richard Call Building. Student Health Services provides direct services by District College Nurse Practitioners and Mental Health providers for any SRJC student enrolled in credit courses. All students may access services offered in the health centers by community agencies. The healthcare providers in Student Health Services are a confidential resource for any student disclosing a Title IX violation.

Services include: appointments and drop-in care for students who are ill, injured, or have health questions/concerns; emergency first aid; crisis intervention, mental health counseling, health screening; health education and promotion activities; sexual and reproductive healthcare, enrollment in health insurance and/or food programs, and resource finding and referrals.

Students who are injured while participating in any college-sponsored and/or supervised activities, whether on or off campus, may qualify for student accident insurance benefits. Any incident should be reported to Student Health Services as soon as possible to obtain assistance and information regarding the insurance coverage.

SRJC charges a fee to support the operation of Student Health Services. This is a required fee with waivers granted to defined student populations per District policy.

Please see our website or call for the latest information of hours and service:

Santa Rosa Campus, Race Building: 527-4445

Petaluma Campus, Richard Call: 778-3919

You may visit our Web site at: **https://shs.santarosa.edu/ (https://shs.santarosa.edu/)**.

During June and July all sites are closed on Fridays.

STUDENT LIFE, EQUITY & ENGAGEMENT PROGRAMS

The office of Student Life, Equity & Engagement Programs (SLEE) is the hub of all student activities and programs at Santa Rosa Junior College. This office coordinates the extracurricular and co-curricular activities of students, the Rotary Center for Student Leadership, the Girvin Family Student Activities Center (SAC), the Intercultural Events Committee, the Student Ambassadors Program, the SRJC Student Body, Student Government Assembly, clubs and organizations. In addition, SLEE coordinates Club Days, Lost and Found Sales, Student Elections, Student Information Day, Welcome Day, and many other activities. The office of Student Life, Equity & Engagement Programs supervises the online student life Calendar of Events, the online BearFacts, Student eNewsletter, and coordinates many of the events and activities on MySRJCApp. The office has a free local phone and mailboxes for student government officers, clubs, and student members of college committees.

The office of Student Life, Equity & Engagement Programs is the place to go for general information and assistance, Student ID cards, and Club Banking. SLEE will also assist and advise students on college Student Grievance and Conduct process.

In Santa Rosa, Student Life is located on the 1st floor of the Bertolini Student Center. Hours of operation are Monday-Friday, 8:00 am – 5:00 pm and Wednesdays, 8:00 am – 6:00 pm. Call (707) 527 – 4424 or email **srjcstudentlife@santarosa.edu (mailto:srjcstudentlife@santarosa.edu)**.

In Petaluma, Student Life is located in Richard Call Building, Room PC 608. Hours of operation are Monday, Tuesday, Thursday, 8:00 am – 5:00 pm, and Wednesday, 8:00 am – 7:00 pm. Call (707) 778-4145.

Visit **http://studentlife.santarosa.edu (http://studentlife.santarosa.edu/)** for more information.

STUDENT RESOURCE CENTERS

Student Resource Centers are designed to help our SRJC Community (students, staff, faculty, alumni, etc.) when they are finding it hard to meet their basic needs.

- Come into a Student Resource Center to find information, referrals for:
- Housing
- Food
- Transportation
- The Student Resource Center provides information for a variety of basic needs programs both on and off campus.
- Food Programs
- Housing Programs

- Transportation Programs
- Utility Assistance Programs
- CalFresh Program
- Health, Wellness & Support Programs
- School Supply Programs
- Shower Kits
- Emergency items
- Fire Victims
- and more...

The Santa Rosa Campus Student Resource Center is also a Coordinated Entry Point for our homeless students.

Santa Rosa Campus -- Bertolini Student Center

1st floor, East Corner, Room 4657

Mon – Thurs: 8:00 am– 4:00 pm

(707) 522.2638

Petaluma Campus – Call Building

680 Sonoma Mountain Parkway

Mon, Tues, Th: 8:00 am - 5:00 pm

W: 8:00 am - 7:00 pm

Closed on Fridays

https://resources.santarosa.edu/ (https://resources.santarosa.edu/)

studentresourcecenter@santarosa.edu (mailto:studentresourcecenter@santarosa.edu)

STUDENT PHOTO ID'S

The office of Student Life, Equity & Engagement Programs (SLEE) is the place to purchase and attain a registered student photo ID at a cost of $5. Also, International Student ID cards cost $22 and the Gold Card and Employee ID cards are free.

The Santa Rosa Junior College Gold Card is FREE and is available to 1) all residents of Sonoma County, 2) 60 years old or older, and 3) students who have a Student ID number. This plastic, photo ID card entitles the user to similar benefits as a CubCard Premium member. The office of Student Life, Equity & Engagement can help you obtain a Student ID number for free if needed.

SRJC Student Body

All currently enrolled students are considered members of the Santa Rosa Junior College Student Body and are represented by the Student Government Assembly (SGA). Students who pay the CubCard Premium membership fee each semester (including summer, with a special benefit program) are entitled to benefits, including, free home athletic events, free theater vouchers, a $5 parking discount, or $2 motorcycle parking discount, 10% off at the SRJC Bookstore (except textbooks), and $0.50 off at Fresh & Natural (spend $4.95 or more). CubCard Premium members are also eligible to apply for both emergency loans and book loans.

The SGA Student Life Committee (SLC) makes college life fun and interesting by sponsoring social and educational programs that are creative and engaging. The SGA gives financial support to many college programs that are creative and engaging. The SGA gives financial support to many college programs that benefit students. They support the

following programs or services: Intercultural Events, Puente Project, Women's History Month, Arts & Lectures, Day Under the Oaks, Petaluma Campus Cinema Series, Theatre Arts Program, Intercollegiate Athletics and much more.

The SGA is the main legislative body of the SRJC Student Body and acts as voice and decision-making body of all students who attend Santa Rosa Junior College. The SGA fosters and encourages the democratic process and political action by involving students in educational issues and legislation that affects their lives on local, state, and national levels. Officers of the SGA are annually elected by the student body during the month of April; vacant positions are filled by appointment. All interested students are encouraged to apply in the office of Student Life, Equity & Engagement Programs or contact the Coordinator, Student Government Programs, Zack Miranda at **zmiranda@santarosa.edu (mailto:zmiranda@santarosa.edu)** or (707) 524-1528. The offices of the SGA are located in the office of Student Life, Equity & Engagement Programs on both campuses.

CLUBS

A current listing of clubs is available online at **https://studentlife.santarosa.edu/student-clubs (https://studentlife.santarosa.edu/student-clubs)**. There are clubs for almost any interest and they are open to any student. Clubs actively recruit members and all students are encouraged to join. If none of the clubs are of interest or meet your needs, then organize your own! Pick up a club information packet in the office of SLEE.

INTER-CLUB COUNCIL

The Inter-Club Council (ICC) includes representatives from every college club and is represented in the Student Government Assembly (SGA) by the Inter-Club Council Chair. The ICC votes on club activation status. ICC also sponsors various events each semester. Its membership assists with events endorsed by SGA and Student Life, Equity & Engagement Programs.

CLUB MEMBERSHIP POLICY

Santa Rosa Junior College policy states that students shall not exercise selectivity of memberships based on vote of their members. The Board of Trustees interprets this policy to prohibit the use of any device or practice, which, in effect, implements selectivity. The board expects compliance in spirit and fact with the policy of open membership.

STUDENT PUBLICATIONS

BEARFACTS

The BearFacts Student eNewsletter is an online bulletin that circulates information of interest to the college community. It is emailed and texted weekly to all currently registered students. Its primary focus is intended to communicate Student Services/Student Life information. It also promotes student-sponsored activities and events and other items of interest to the college community. Scholarship deadlines, student employment opportunities, and SRJC club information are just a few of the many listings in the BearFacts Student eNewsletter.

FIRST LEAVES

A publication of student works of literature and art that is published in spring.

THE OAK LEAF

The Oak Leaf is SRJC's award-winning newspaper and website, **www.theoakleafnews.com (http://www.theoakleafnews.com/)**. The News Media Practice classes (Jour. 52A/B/C/D) offer a hands-on learning environment where students produce all content and decide what is published in print and online. The Oak Leaf covers college news, features, sports, opinions and arts & entertainment, as well as state and national events that affect the college and its students.

The Oak Leaf prepares students for careers in journalism and related fields. Students learn a broad range of print and multimedia skills, including writing, reporting, editing, photography, design and layout, podcasting, video production, social media reporting and website management and marketing. Call (707) 527-4867 for more information.

STUDENT SUPPORT SERVICES (SSS) TRIO HOPE

PROGRAM DESCRIPTION

The SSS TRiO HOPE (Health Occupation Preparation Education) Program provides opportunities for academic development, assists students with basic college requirements, and motivates students toward the successful completion of their postsecondary education. The goal of SSS is to increase the college retention and graduation rates of its students who are interested in pursuing a career in a health related field.

SERVICES

The SSS TRiO HOPE Program provides the following services:

- Academic tutoring, which may include instruction in writing, study skills, mathematics, science, and other subjects.
- Advice and assistance in postsecondary course selection.
- Assistance with information on both the full range of student financial aid programs, benefits and resources for locating public and private scholarships; and assistance in completing financial aid applications.
- Education or counseling services designed to improve financial and economic literacy.
- Assistance in applying for admission to, and obtaining financial assistance for enrollment in four-year programs.

The SSS TRiO HOPE Program may also provide individualized counseling for personal, career, and academic information, activities, and instruction designed to acquaint students with career options; exposure to cultural events and academic programs not usually available; mentoring programs.

Email: **hopecenter@santarosa.edu (mailto:hopecenter@santarosa.edu)**

Phone: 707-524-1520

Visit the HOPE Center!

Emeritus Building, Room 1575

STUDY ABROAD

Students at Santa Rosa Junior College have the opportunity to study abroad. Nearly all classes offered are university transferable, meet general education requirements for the associate degree, and meet CSU, UC, and IGETC general education requirements. SRJC faculty and their counterparts from other cooperating California community colleges teach the courses.

Study Abroad offers programs in London, Paris, or Spain in the fall semester and Florence in the spring semester. Students are required to be enrolled full time (12 or more units) and have a 3.0 GPA for semester abroad programs and be at least 18 years old.

For program applications or additional information, call the SRJC International Education Office at (707) 527-4441, drop by the office in room 1525 Emeritus Hall on the Santa Rosa Campus, or visit the Study/Work Abroad Web site at: **https://study-abroad.santarosa.edu/ (https://study-abroad.santarosa.edu/)**

SUCCESS TEAM (SRJC PETALUMA)

The Petaluma Student Success Team promotes success through implementation of best practices that welcome, guide and engage students. The team focuses on creating relationships with students to guide them through the steps to successful enrollment, troubleshoot any potential roadblocks to success, assist with Early Alert intervention, and connect students with campus activities and resources. For more information about the Petaluma Student Success, download the SRJC Petaluma mobile app on Android/Apple mobile devices or visit the Petaluma Student Success Team website at: **https://petaluma.santarosa.edu/petaluma-student-success-team (https://petaluma.santarosa.edu/petaluma-student-success-team)**.

SUSTAINABLE SRJC COMMITTEE

The Sustainable SRJC Committee is a collaboration between faculty, staff, administrators, and students committed to expanding and supporting sustainability initiatives at SRJC. A primary goal is to facilitate the development, implementation, and management of Santa Rosa Junior College's Strategic Plan Goal E (**https://strategic-planning.santarosa.edu/ (https://strategic-planning.santarosa.edu/)**) and establish a culture of sustainability that promotes environmental stewardship, economic vitality, and social equity throughout all district sites. The Sustainability Committee is committed to the following functions:

- Promote sustainability across the five spheres of sustainability: Economics and Social Equity; Education and Culture; Facilities and Grounds; Energy, Waste and Water; and Transportation and Access
- Monitor and provide input to district-wide policies and projects, especially construction, renovation, and purchasing, to assure implementation of green practices and principles, in coordination with the District Facilities Planning Committee (DFPC)
- Network with campus and community sustainability organizations and develop student trainings, events, and internships; coordinate with Student Sustainability Committee
- Create professional development opportunities related to sustainability for faculty and staff
- Oversee and promote environmental education at SRJC, including supporting the development of environmental courses and majors, administering the Global/Environment AS requirement, facilitating the Environmental Forum course, awarding Foundation scholarships, and assisting faculty across all disciplines to incorporate sustainability issues into their curricula.

Interested students, faculty, and staff are encouraged to get involved. Consider the following:

- Become a member of the Sustainability Committee and participate within one of the five spheres of sustainability.
- Participate with SRJC's Student Government Assembly's Sustainability Committee. For more info see the Student Involvement page (**https://sustainability.santarosa.edu/student-involvement (https://sustainability.santarosa.edu/student-involvement)**).
- On the Petaluma campus, get involved with the Petaluma Green Collaborative. Contact David Rau, **drau@santarosa.edu (mailto:drau@santarosa.edu)**, Petaluma Library for more information.
- Take classes or consider a major or certificate in an environmental field such as environmental studies, natural resources management, conservation, sustainable agriculture, or photovoltaics and solar design. See the list of courses that have sustainability as a theme at: **https://sustainability.santarosa.edu/sustainability-courses-srjc (https://sustainability.santarosa.edu/sustainability-courses-srjc)**.
- If you are a student, apply for environmental scholarships in the spring semester. Visit the Scholarship Office website for more information.
- Attend the Spring Environmental Forum presentations or sign up to take the Environmental Forum class (ENVST 40).
- Most importantly, Get Involved! Volunteer, intern, and make a difference in your community.

For more information about District-wide sustainability, visit SRJC's Sustainability website (**https://sustainability.santarosa.edu/ (https://sustainability.santarosa.edu/)**).

TRANSFER CENTER

It is the mission of the SRJC Transfer Center to meet the needs of students preparing to transfer to a bachelor's degree program by providing accurate, current information to four-year colleges and a set of coordinated resources, activities, and services that support the transfer process. The Transfer Center offers:

- Availability of college/university representatives for individual meetings.
- Assistance with college/university applications.
- Referrals to faculty for information about majors and colleges/universities.
- Referrals to other programs that support transfer students.
- Workshops, seminars, and panel presentations on transfer topics.
- An annual college fair with representatives from colleges/universities.
- General directories of information about colleges/universities and their academic programs.
- Computerized university/college search programs.
- COUN 80 – Understanding the Transfer Process: a short course about transfer planning.

The Transfer Center is located in the Bertolini Student Service Center and is open Monday–Thursday from 8:00 am–5:00 pm. Friday 8:00 am - 12:00 pm. Call (707) 527-4874, or access information on the Web at **http://transfer.santarosa.edu/ (http://transfer.santarosa.edu/)**

TRANSFER TO A BACHELOR'S DEGREE PROGRAM

There are four requirements to transfer from a community college to a college/university bachelor's degree program:

1. The total number of required units.
2. General education courses.
3. Major preparation courses.
4. A minimum grade point average.

For an overview of the requirements to transfer to a California State University (CSU) or University of California (UC), which are California public university systems, see the following.

CSU MINIMUM TRANSFER ELIGIBILITY

1. 60 transferable units (courses numbered 1-99).
2. 2.0 GPA (for California residents).
3. 30 units of General Education completed with grades of C or better. The 30 units of GE courses completed must include all of Area A (speech, composition, critical thinking) and Area B4 (mathematics). Note: Some CSU's now require that these four courses be completed by the end of spring for fall transfer and by the end of summer for spring transfer.
4. File an application for admission while the CSU campus is accepting applications.
5. For more information please visit the CSU Web site **www.calstate.edu (http://www.calstate.edu/)**.

CSU RECOMMENDED TRANSFER GUIDELINES

1. 60 transferable units.
2. 2.5+ GPA (Impacted majors and popular campuses may require a higher GPA and specific preparation to meet "selection criteria").

3. 39 units of GE completed and certified (of which 30 units, including all of Area A and B4, must be with a C or better).
4. File an application for admission during the priority-filing period.

Note: To graduate from a CSU, it is required that at least 9 units of upper division GE be completed after transfer. It is not possible to complete all GE required for graduation from a CSU at SRJC.

UC MINIMUM TRANSFER ELIGIBILITY REQUIREMENTS

1. 60 transferable units* (courses numbered 1–49 + 4 PE activity courses)—see "Which Courses Transfer and Where"
2. 2.4 GPA (for California residents).
3. 2 courses in English Composition.
4. 1 college-level math course.
5. 4 courses from at least two of the following areas: Arts & Humanities, Social & Behavioral Sciences, and Physical & Biological Sciences.
6. The 7 courses must be transferable to UC and completed with grades of C or better
7. File an application for admission during the priority filing period.

UC REALISTIC TRANSFER SELECTION REQUIREMENTS

1. 60 transferable units. Refer to the SRJC/UC Transferable Course Agreement
2. The 7 required courses.
3. 3.0+ GPA for California residents (higher GPA may be required for impacted majors).
4. Lower division major preparation completed.
5. IGETC or campus-specific GE completed.
6. File an application for admission during the priority-filing period.
7. Please refer to the UC Web site for more information **www.universityofcalifornia.edu (http://www.universityofcalifornia.edu/)**.

For General Education (GE) requirements for the CSU and the UC, see the sections in this College Catalog for: "General Education, California State University" and "IGETC" (Intersegmental General Education Transfer Curriculum).

Note: The CSU GE pattern allows students to meet General Education requirements for the CSU only; the IGETC pattern allows students to meet the General Education requirements for either the CSU or the UC.

Major preparation courses (also called major prerequisites) are courses that must be taken at the freshman or sophomore level in order to be admitted to a major at the junior level. California community colleges offer only freshman and sophomore-level ("lower division") courses. Only the CSU, the UC, and other colleges/universities with bachelor's degree programs offer junior/senior-level ("upper division") courses. Information about major prerequisites for some majors and schools are available from a counselor or at the SRJC Web site **www.santarosa.edu (http://www.santarosa.edu/)** under Students/Transfer Center/Major Preparation. It is important to choose a major as early as possible. See a counselor about how to choose a major.

For transfer to an independent (private) college/university or an out-of-state college/university, it is important that the student meet with a counselor as early as possible. The counselor will assist the student in consulting catalogs about the requirements of each target college/university. It is also important for the student to establish contact with the admissions office of the target school.

WHICH COURSES TRANSFER AND WHERE

At Santa Rosa Junior College the number of each course indicates whether or not it will transfer to the California State University (CSU) or the University of California (UC) for credit toward a bachelor's degree.

1. Courses numbered 1–49 will be accepted for credit by the UC (examples: English 1A, Math 10, Sociology 30). However, UC transfer students should not count credit earned for selected topics (48) or special studies (49) toward the 60 units required for admission. These courses will be evaluated by the UC campus after admission.
2. Courses numbered 1–99 will be accepted for credit by the CSU (Examples: English 1A, Math 27, Speech 60, Counseling 80).
3. Courses numbered 100 or above do not transfer to either the CSU or the UC (Note: courses numbered 1–299 are accepted for an associate degree at SRJC).
4. In general, independent and out-of-state colleges/universities accept courses numbered 1–49. It is important to meet with a counselor and establish contact with these colleges/universities to verify acceptable courses.

WHEN TO APPLY

There are standard "priority admission" application periods for the California public university systems. Specific CSU or UC campuses may accept applications beyond the priority application period. Students can find out whether a particular campus is open for applications from a counselor, the Transfer Center, or the Web site of the campus to which they wish to apply.

There are variable application periods for independent and out-of-state colleges/universities. Students should visit the Web site of each school to which they wish to apply for application deadlines.

Priority Application Period to Apply for:

- July 1-31: Spring semester or quarter of the next year at UC
- August 1-31: Spring semester or quarter of the next year at CSU
- October 1-November 30: Fall quarter or semester of next year at CSU
- November 1-30: Fall quarter or semester of the next year at UC

TRANSFER ADMISSION AGREEMENTS

Santa Rosa Junior College has Transfer Admission Guarantees (TAG) with UC Davis, UC Irvine, UC Merced, UC Riverside, UC Santa Cruz, and UC Santa Barbara. These agreements guarantee transfer admission to students whom meet certain requirements for course completion and grade point average. Students must complete 30 transferable units before entering into the agreement. Students interested in transferring to one of these campuses should meet with a counselor for information about the requirements of a TAG.

TUTORIAL CENTER

The Tutorial Centers on the Santa Rosa and the Petaluma campuses are student-centered learning places where tutoring is offered FREE OF CHARGE to any students needing assistance with coursework. This tutorial assistance is provided by Instructional Assistants who are experts in their subject areas and by knowledgeable students who have been recommended by instructors and have not only succeeded in the courses they tutor, but enjoy helping others succeed. You don't need to have academic challenges or hurdles to overcome to use the Tutorial Centers. Many scholars use it to maintain A and B averages.

If you enjoy helping others and are qualified, you may consider applying to become a paid student tutor. Approximately 75 students are employed each semester.

In Santa Rosa, the Tutorial Center is located in Doyle Library, Room 4251. Hours are Monday - Thursday, 8:00 am - 7:00 pm, and Friday 8:00 am - 3:00 pm. In Petaluma the Tutorial Center is located in Kathleen Doyle Hall, Room PC 247. Hours are Monday - Wednesday, 9:30 am - 7:00 pm, Thursday 3:30 am - 6:00 pm, Friday 10:30 am - 4:00 pm. For details, visit; **http://college-skills.santarosa.edu/tutorial-centers (http://college-skills.santarosa.edu/tutorial-centers)**.

VETERANS' BENEFITS

Santa Rosa Junior College is an approved college for the training of veterans and veterans' dependents under the various public laws of the United States and California veteran enactments.

Students eligible for veterans benefits are urged to contact the Veterans Affairs Office in Plover Hall well in advance of registration so that necessary arrangements may be made with the Veterans Administration or the California Department of Veterans Affairs.
Students using VA education benefits should keep in mind that the timeframe in which they receive their benefit payment is usually directly correlated with the timelines with which they apply for their benefit and/or notify the SRJC Veterans Affairs Office they wish to use their benefit. Payments will be retroactive from the first day of attendance. Since the payment of fees and books cannot be deferred until receipt of benefits and the Emergency Loan Fund cannot provide loans to cover all veterans during the first two or three months of school, the student should be financially prepared until benefit payments begin.

The state of California provides a program for children of veterans who are deceased or are disabled from service-related causes. Applications should be submitted to the Sonoma County Veteran Service Office, 3725 Westwind Blvd. STE 101, Santa Rosa, CA 95403 (707) 565-5960

Veterans and military reserve members are granted four units of college credit for completion of basic training. Additional academic credit may be granted for advanced military experience and training as determined by the Evaluations Office of Admissions and Records.

For information or assistance regarding veterans benefits, contact the Veterans Affairs Office in Plover Hall. Hours are Monday–Thursday, 8:00 am–5:00 pm and Friday, 8:00 am–12:00 pm. For more information, call (707) 527-4326 or visit: **https://veterans.santarosa.edu/ (https://veterans.santarosa.edu/)**

WELCOME CENTER

The Welcome & Connect Center is your first stop whether you are going to college for the first-time, are new to Santa Rosa Junior College, or just have a quick question. In one convenient location at either of our campuses, you will find the information, services and support you need to make a smooth transition to SRJC. The Welcome and Connect Center has staff and Peer Success Coaches on hand to answer questions, connect new students to programs and services, or provide hands-on assistance completing the online application for admission and financial aid paperwork. For more information about the Santa Rosa Campus Welcome & Connect Center, call (707) 527-4410 or visit **welcome.santarosa.edu (https://welcome.santarosa.edu/)**.

For information about the SRJC Petaluma Welcome Center, please visit: **https://petaluma.santarosa.edu/welcome-center (https://petaluma.santarosa.edu/welcome-center)**.

WORK EXPERIENCE

Courses offered assist students in acquiring desirable work habits, attitudes, career awareness and other professional skills. Internship courses are a bridge between classroom learning and work with the internship directly related to the students' major.

Work Experience students apply employability skills known as "soft skills" in a work environment. Soft skills include teamwork, effective communication, time management, adaptability, and problem solving. The skills learned in Work Experience courses help students develop skills that support career and college success.

BENEFITS TO ENROLLING IN WORK EXPERIENCE:

- Improve effectiveness in the workplace
- Learn skills that will support career advancement
- Apply skills learned in the classroom to the job and vice versa
- Apply goal-setting techniques to achieve success both professionally and personally
- Earn college credit towards a certificate, a degree, or to transfer
- Meet full-time student status for financial or other aid

WORK EXPERIENCE COURSES OFFERED:

- General Work Experience
- Occupational Work Experience
- Internship courses
- Community Engagement courses
- Apprenticeship courses

SANTA ROSA CAMPUS
Bertolini Student Center,
3rd floor, Room 4842
(707) 527-4329
Business Hours: M-Th 8:00 am to 5:00 pm
Friday 8:00 am to noon
*Closed Fridays during summer semester

PETALUMA CAMPUS
Kathleen Doyle Hall
Resource Center, Room 214
(707) 778-3920
Open by appointment Mondays and Thursdays 9:00 am-4:00 pm

Web site: **http://workexperience.santarosa.edu (http://workexperience.santarosa.edu/)**

THE CATALOG 2019-2020 SECTION 5: SCHOLARSHIPS

CONTENTS:

SRJC Foundation

Scholarship Programs

Scholarships and Awards

SRJC FOUNDATION

The mission of the Santa Rosa Junior College Foundation is to advance educational opportunities by raising and stewarding funds to support programs, scholarships, facilities and special projects of the College. In cooperation with the Sonoma County Junior College District, the Foundation enhances the quality of higher education in the communities we serve.

Established in 1969 by SRJC's second President Dr. Randolph Newman, the Foundation seeks to assist the College and its students in areas where educational needs may best be met through the donation of private gifts by receiving donations by gift, bequest, will, or trust. Earnings from prudent investing assist in funding scholarships and programs at Santa Rosa Junior College for the progress and welfare of its students, faculty, staff, and community. Guided by the wishes of the donor, the Foundation distributes donations for a specific purpose or identifies areas of greatest need. The SRJC Foundation is ranked #1 among all California community colleges for scholarship distribution. In honor of the upcoming anniversary of the College, the SRJC

Foundation has launched the SRJC 100th Anniversary Campaign to raise $15 million in support of students, faculty and instructional programs. To learn more about the Campaign and the many ways to support the College and its students, please visit **https://foundation.santarosa.edu/. (https://foundation.santarosa.edu/)**

The Foundation is located on the Santa Rosa Campus at 1990 Armory Drive.

Phone: (707) 527-4348 Email: **foundation@santarosa.edu (mailto:foundation@santarosa.edu)**

Website: **https://foundation.santarosa.edu/ (https://foundation.santarosa.edu/)**

SCHOLARSHIP PROGRAMS

Scholarships recognize outstanding students for academic achievement, financial need, academic field of study, community service, campus activities, and outside interests. At Santa Rosa Junior College, scholarships are offered to incoming, continuing, and transferring students. Funding sources that support the scholarship programs at Santa Rosa Junior College include the Santa Rosa Junior College Foundation Scholarship funds, individual, business and community awards, and outside scholarship funds.

Doyle Scholarships provide financial assistance to qualified local high school graduates who will attend Santa Rosa Junior College in the academic year following their high school graduation. Doyle scholarships assist students as they work to complete an Associate's Degree, certificate program, and/or units necessary to transfer to a four-year institution. Funds for these scholarships are provided through the Frank P. Doyle and Polly O'Meara Doyle Trust. The primary application period for Doyle Scholarships is from October 1 – March 2.

Applications for the SRJC Foundation scholarships are available between January 2 and March 2 and from August 1 to October 1. Students are encouraged to contact the Scholarship Office early for information on completing the appropriate application. Scholarships from outside sources are regularly advertised on the Scholarship web page listed below. The Scholarship Office is located in Plover Hall on the Santa Rosa campus. Office hours are 8:00 am until 5:00 pm, Monday through Thursday and from 8:00 am – 12:00 pm on Fridays. For additional information, call (707) 527-4740. On the Petaluma Campus, visit the First Stop Center in Jacobs Hall, Room 109, or call (707) 778-2461. Information is also available at **http://scholarships.santarosa.edu (http://scholarships.santarosa.edu/)**

SCHOLARSHIPS AND AWARDS

The following are named scholarship funds that assist students who will continue their education at Santa Rosa Junior College or transfer from SRJC to a four-year institution. This support and encouragement of higher education is greatly appreciated by the SRJC Board of Trustees, SRJC Foundation Board of Directors, SRJC staff, faculty, administration, and students. **http://scholarships.santarosa.edu/ (http://scholarships.santarosa.edu/)**

49-50 Football Team Mastins/Cusick/Charlesworth Scholarship

AAA Public Safety Scholarship

Adult Literacy Awards Program

Robert F. Agrella Scholarship

Bruce Dean Albertson Scholarship

Allan Family Native American Scholarship

Jon Altimori Memorial Scholarship for El Molino High School Graduates

Alves Family Scholarship for Learning Disabilities

Edith M. Amateau Memorial Scholarship

American AgCredit Agricultural Scholarship

American Association of University Women Healdsburg Al Garren Scholarship

American Association of University Women Petaluma Scholarship

American Association of University Women Santa Rosa Scholarship

American Legion Song Bourbeau Book Award

American Legion Auxiliary Theodore Roosevelt Unit #21 Memorial Scholarship

American Legion Post #21 Scholarship, In Memory of Deceased Comrades

American Legion Riders Chapter 111 Sgt Ryan James Connolly Memorial

American Medical Response Foundation for Research and Education Foundation Paramedic Scholarship

American Vineyard Shone Farm Viticulture Internship Award

Nick Anast Summer Undergraduate Research Fellowship

Courtenay W. Anderson Chemistry Scholarship

Anonymous 100th Anniversary Student Success Endowment

Anonymous SRJC Nursing Scholarship

Artists Round Table Award

ASCCA Chapter 28 Automotive Scholarship

Associated General Contractors Scholarship

Diane Babitz Memorial Psychiatric Nursing Scholarship

Floyd P. Bailey Memorial Outstanding Transferring Student Scholarship

Marie Griffith Bailey Memorial Reentry Scholarship

Stephen J. Barnhart Herbarium Pepperwood Internship Fund

George and Vivian Bech Memorial Scholarship

Charles Belden Memorial Vocational Education Scholarship

Dorothy Bell-Becker Memorial Elementary Education Scholarship

Jane Benet Culinary Scholarship

Larry and Rosie Bertolini Athletic Scholarship

Larry Bertolini Day Under the Oaks Agriculture Scholarship

Christine A. Biagi Memorial Art Scholarship

Bob Blanchard-SRJC Administration of Justice Faculty Scholarship

Richard Blewett Memorial Athletic Scholarship

Michael Bloom Memorial Agriculture Scholarship

Hermelinda Diaz Blume EOPS Scholarship

Hermelinda Diaz Blume Scholarship

Bodega Bay Allied Arts Scholarship

Mark Stephen Bollinger Memorial Endowment

Joan Borecky Health Sciences Scholarship

Lt. Glenn R. Bothwell Memorial Music Scholarship

Yvonne Boulleray Culinary Scholarship

Grace and Clifford Bowen Agriculture Scholarship

Bert and Olive Bower Memorial Transferring Student Scholarship

John and Mildred Boyle Memorial Scholarship for Education Majors

Patrick Boyle Memorial Mathematics Scholarship

Bill Bramson Vocational Nursing Scholarship

Brelje and Race Civil Engineering Scholarship

Renata Breth, Steve Osborn, and Celeste Osborn Breth Study Abroad Scholarship

Harry M. and Wilma M. Briggs Scholarship

Larry Broderick and the Kut-Ups of Rohnert Park Music Scholarship

Brotman Family Scholarship Fund

David R. Brown Memorial Scholarship

Melissa Brown Reentry Scholarship

Walt Brown Memorial Engineering Club Scholarship

C. Howard and Yumiko Bryan Business Scholarship

Dowell Thurman Bryant Book Award

Elizabeth Burbank Memorial Transferring Scholarship

Luther Burbank Botany Scholarship

B. Robert Burdo Culinary Arts Center Endowment

John M. Burke Family Scholarship

Kieran C. Burke Memorial-Patianna Organic Vineyards Agriculture Scholarship

Harold Pasmore Burrell Memorial Civil Engineering Scholarship

Cal Alumni Club of Oakmont Scholarship in Honor of Susan Millar

Call Child Development Internship

Allen and Ada Call Memorial Electrical Engineering Scholarship

Robert and Richard Call Outstanding Student Athlete Scholarship

Patricia J. Callahan and Davis Bernstein Scholarship for Latino Women in Science and Health Care

Denise Calvert Scholarship

Thomas and Evelyn J. Campion Memorial Scholarship, EOPS

Thomas and Evelyn J. Campion Memorial Reentry Scholarship

Eugene S. Canevari Associated Students Award

Ashley Carlson Memorial Scholarship

Elizabeth Carlson Memorial Scholarship for Disability Resources

Sue Carlson Memorial ESL Scholarship

Major William C. Carr Memorial Continuing Engineering Scholarship

Major William C. Carr Memorial Transferring Engineering Scholarship

Jamie Lee Carrell Memorial Scholarship

John Gilchrist Chalmers Technology Scholarship

Chemistry Transferring Student Employee Award

Charles and Anna Cherney Memorial Art Scholarship

Chick-fil-A Team Member Scholarship

Fred V. Chigazola Memorial Scholarship for Music

Jeanne Chown Memorial Nursing Scholarship

Michael Cicanese Memorial Culinary Arts Scholarship

Nettie Clark Memorial Costuming Scholarship

Mead Clark and Senator Herbert W. Slater Transferring Scholarship

Mead Clark and Senator Herbert W. Slater Student Singer Scholarship

Mead Clark and Senator Herbert W. Slater Student Speaker Scholarship

Laura Clelland Nursing Scholarship

Janie Rose Arnold Clemens Memorial Nursing Scholarship

Patricia Cole Scholarship for Petaluma Campus Student

Joel Coleman Memorial Music Scholarship

Charles, Lee and Ken Comalli Agricultural Internship

Commission on the Status of Women Scholarship

Steve Conklin Memorial Scholarship for Non-Traditional High School Graduates

Connections: A Forum for Women in Business Scholarship

Winifred and Steve Connolly Music Scholarship

Robert R. Coombs Memorial Mathematics Scholarship

Helen and Jack Cooper Memorial Nursing Scholarship

Kevin D. Cooper Firefighter/EMT Memorial Scholarship

James C. and Clara Hall Cortage Scholarship for Humorous Writers

Marion Coset Memorial Associate Degree Nursing Scholarship

E. Juli Craig Memorial Business Office Technology Scholarship

Ruth Parlé Craig Foreign Language Scholarship

Ruth Parlé Craig Study Abroad Scholarship

Wil and Ruth Craig Human Services Multi-Year Scholarship

John and Debra Crevelli Scholarship

David Crowley Memorial Reentry Scholarship

Culinary Café & Bakery Scholarship

Larry Cullen Memorial Scholarship

Cupric Art Scholarship

Cupric Continuing Student Scholarship

Vivian C. Cutcher Memorial Nursing Scholarship

Marc Dahlgren Memorial Agriculture Scholarship

Norma McClellan Dallachie, RN, FNP Nursing Scholarship

Bob Dallachie, Administration of Justice Scholarship

Kathy Lee Dammarell Memorial Teaching Scholarship

Eileen Davin Make a Change Scholarship

Jim Davis Memorial Economics Scholarship

William R. Day Sr. Opportunity Scholarship

Delta Kappa Gamma Scholarship, Epsilon Beta Chapter

Richard and Marilyn Dennis Music Scholarship

Dharma Cloud Foundation Scholarship for Outstanding Potential

Christie Eastman Dias Memorial Nursing Scholarship

Ruth Sohler Dibble Nursing Scholarship

Olga Dinelli Memorial Scholarship

Arrieanna F. and Mildred L. Doherty Memorial Nursing Scholarship

Damian H. and Kevin F. Doherty Memorial Nursing Scholarship

Robert Dollar Administration of Justice Memorial Scholarship

Dowd Family Scholarship

Dream Big Scholarship

Lucile Freed Drennon and Don A. Freed Memorial Social Science Scholarship

Bob Duxbury Study Abroad

Early Ford V-8 Club of America, Redwood Empire Regional Group #27, Automotive Scholarship

Early Ford V-8 Club of America, Redwood Empire Regional Group #27, Welding Scholarship

Rick Edwards Fresh Start Memorial Scholarship

Eiermann Family Scholarship

Electro Optical Components' Victor Yen Memorial Scholarship

Elizabeth's Fund

Raymond B. Ellam Memorial Business Office Technology Scholarship

Elsie Allen High School Foundation Scholarship

Don Emblen Literary Scholarship

Emery Family Memorial Scholarship

Kathleen Anne Emery Memorial Scholarship

Engineering/Science Transferring Scholarship

Eduardo Avila Escalona Memorial Scholarship

ESL Culinary Arts Scholarship

English as a Second Language Scholarship

Donna Lee Estrada Memorial Scholarship

Elizabeth Fay Evans Art Scholarship

David Farrell Memorial ESL Scholarship

Evelyn Farrell Memorial Reentry Scholarship

Federated Indians of Graton Rancheria Scholarship

George C. Feliz Economics Scholarship

Ernest L. and Ruth W. Finley Endowment SRT Awards

Dustin Fiori Memorial Apprenticeship Scholarship

Gilbert B. "Tim" Foote Memorial

Leah Mayfield Ford Scholarship

Norton Forsyth Athletic Scholarship

Foundation 21 - Jonathan C. Christopher Memorial Scholarship

Fountaingrove Lodge Scholarship Fund

Julio Francescutti Memorial Theatre Arts Scholarship

Gertrude and Angelo Franchetti Memorial Life Sciences Scholarship

Frank Family Memorial Scholarship

Joseph James & Mary Ann (Ravenscroft) Frates Memorial Fund

Kathleen L. Fremgen Nursing Scholarship

Kay French Memorial Art Scholarship

Fresh & Natural Scholarship

Ann and Henry Fujita Memorial Chemistry Scholarship

Dennis and Susan Fujita MESA Scholarship

Gary Y. Fujita Memorial Chemistry Scholarship

Future Teachers Scholarship

The Jean Mary Galvin Memorial Tennis Scholarship

Gant Family ESL Scholarship

Gay and Lesbian Leadership Fund

Charles and Lillian Gay Transferring Scholarship

Galen G. George Scholarship

Dennis Gilmore Memorial, SRJC Police Cadet Association Scholarship

Julie H. Gleason Child Development Scholarship

Russ Gleason Memorial Anthropology Scholarship

Leon and Louise Glover Scholarship for Culinary Arts

Carrie Gong-Lowe Horticulture Scholarship

Bettie Underwood Goodman-Malamuth Dental Assisting Scholarship

David Grabill Social Justice Scholarship

Graton Community Club Scholarship

Green Thumb Garden Club of Cloverdale

Robert P. Greiner Memorial History Scholarship

Gabe Griovski Memorial Scholarship

John Warren Gripe Memorial

Peg Gripe Memorial Administration of Justice Scholarship

Ava and Sam Guerrera International Student Scholarship

Ava and Sam Guerrera Study Abroad Scholarship

E.J. "Nin" Guidotti Memorial Political Science Scholarship

Raoul Guzman Memorial Scholarship

Gene Haas Foundation Student Manufacturing Award

Tony Haas Memorial Scholarship

Michael Haberski Memorial Scholarship

Vivien Haigh Memorial Scholarship

Vivien Haigh Memorial Viticulture Scholarship

Hallberg Butterfly Gardens Internship

Marjorie Hammersly Student Excellence Scholarship

Colleen Handley Memorial Scholarship for Outstanding Physically Challenged Students

Allene and Randolph Hankla Child Development Education Scholarship

Harvey Hansen Memorial History/Political Science Scholarship

Cheryl Hanson Tutorial Award

Robert and Shirley Harris Family Foundation Continuing Student Scholarship

Robert and Shirley Harris Family Foundation Financial Aid Student Success Grant

Robert and Shirley Harris Family Foundation Foster Youth Success Program Completion Incentive Award

Robert and Shirley Harris Family Foundation Multi-Year Scholarship

Robert and Shirley Harris Family Foundation Teaching Fellows Program

Robert and Shirley Harris Family Foundation Transferring Scholarship

Bea and Homer Harris Scholarship

Shirley Harris Memorial Scholarship

Theodore K. Hawkins Mass Communications Scholarship

Hayssen Geography Scholarship

Healdsburg Garden Club

Heath Physics Prize

Heck Foundation Wine Studies Scholarship

Jessie Heinzman HEP Scholarship

Dr. Atlas Hembree Chemistry Scholarship

Inger M. Henninger Memorial Nursing Scholarship

HEP Attendance Award

Fabian Carreras Hermosillo Memorial Scholarship Fund

Hester Family Engineering Scholarship

Chief Carl O. Heynen Memorial Fire Technology Scholarship

Tom Hobart Memorial Agriculture Scholarship

Clifford E. Hodder, Jr. Memorial Social Sciences Scholarship

Michael and Susan Hoey Scholarship

Horticulture Studies Scholarship

Hospitality Advisory Committee Scholarship

Hospitality de los Carneros Scholarship

Milton Hudis Memorial Scholarship for Civil Engineering

Donna L. Huffstutter Engineering Scholarship

Humm Family Physical Sciences Scholarship

Alvin Hunter Memorial Anthropology Scholarship

Blanche E. Hurd Communications Scholarship

Carmine Indindoli Enology/Viticulture Scholarship

International Students Scholarship

Independent Order of Odd Fellows, Santa Rosa Lodge #53 Independent Student Scholarship

Independent Order of Odd Fellows, Santa Rosa Lodge #53, Carl Feil Memorial Scholarship

Independent Order of Odd Fellows, Santa Rosa Lodge #53 Scholarship

Isabel's Second Chance Scholarship

Thomas Craige Jackson Memorial Scholarship

Dr. John Muir and Audrey Jacobs Memorial Life Sciences Scholarship

Harold Jacobs Environmental Studies Scholarship for Continuing Students

Harold Jacobs Environmental Studies Scholarship for Transferring Students

Mary E. Jacobs Scholarship

Janakes Family Scholarship

Arthur Jaseau Learning Skills Grant

Fred E. Jenner Native American Scholarship

Thomas A. Jerrell Memorial Chemistry Scholarship

Thomas A. Jerrell Memorial Earth Science Scholarship

Thomas A. Jerrell Memorial Engineering/Physics Scholarship

Dorothy C. Johnson Memorial Scholarship

Margaret Halliday Johnson Nursing Scholarship ADN

Sam and Steffanie Jones Foster Scholar Award

John Jordan Foundation ESL Scholarships

Kay Jordan Memorial Speech Scholarship

Peter A. Jorgensen Memorial Award

Laurie D. Judson Scholarship

William Justman Memorial Automotive/Welding Technology Scholarship

Martin T. Karpa Memorial Vocational Scholarship

Alice Streeter Kellar Art Scholarship

Jack J. Kellar Memorial Scholarship

Robert C. Kelley English Scholarship

Paul and Lucile Kelly Art Scholarship

Fran and George Everett Keppel Scholarship

Emeline Kersey Memorial Culinary Scholarship

Alan B. Kiel Scholarship

Pat Kinahan Memorial Award for Soccer Students

Joseph E. Kinberg Memorial Scholarship

Kirkwood-Bly Civil Engineering Scholarship

Bo and Janet Kirschen High School Equivalency Student Scholarships.

Kiwanis Club of Petaluma Community Service Scholarship

Lenore and Howard Klein Foundation Scholarship

Dr. Pearl Konttas Continuing Student Scholarship

Dr. Pearl Konttas Transferring Student Scholarship

Albert Koran Memorial Culinary Scholarship

Mark A. Kostielney Health Careers Scholarship

Walt and Evie Kotula Memorial Radiologic Technology Award

Alexander H. Kuhnel Reentry Scholarship

Alexander H. Kuhnel Redwood Empire Mensa Scholarship

Alexander H. Kuhnel Transferring Scholarship

Annabel Baker Lagomarsino Scholarship for Continuing Students

Annabel Baker Lagomarsino Scholarship for Ag/Farm Study

Annabel Baker Lagomarsino Scholarship for Leadership

Annabel Baker Lagomarsino Agriculture/Natural Resources Multi-Year Scholarship

Annabel Baker Lagomarsino Scholarship for Transferring Students

F. and C. Lahm Family Memorial Associate Degree Nursing Scholarship

F. and C. Lahm Family Memorial Child Development Scholarship

F. and C. Lahm Family Memorial Dental Assisting Scholarship

F. and C. Lahm Family Memorial Dental Hygiene Scholarship

F. and C. Lahm Family Memorial EOPS Scholarship

F. and C. Lahm Family Memorial Exam Fee Award

F. and C. Lahm Family Memorial Continuing Student Scholarship

F. and C. Lahm Family Memorial Transferring Student Scholarship

F. and C. Lahm Family Memorial Multi-Year Scholarship

F. and C. Lahm Family Memorial Radiologic Technology Scholarship

F. and C. Lahm Family Memorial Part-Time Reentry Scholarship

F. and C. Lahm Family Memorial Teaching Scholarship

F. and C. Lahm Family Memorial Vocational Nursing Scholarship

F. and C. Lahm Family Memorial Vocational Scholarship

Edwin Langhart Memorial History Scholarship

Maurice Lapp Memorial Scholarship

Joan-lee LaSalle Memorial Theatre Arts Scholarship

Nancy Lee Lawry Child Development Scholarship

Mildred E. Laythe Spring Lake Village Employees Scholarship

LeBaron Photography

Bruce Leonard Lee Memorial Technical Theatre Scholarship

Mike Lee Memorial Viticulture Scholarship

Ray, Sandy and Bryan Lee Memorial Scholarship

R. Elton Leith ESL Scholarship

Robert Elton Leith Career Technical Education Scholarship

Leveque-Garcia Teaching Scholarship

Limitless Scholarship

Alex Ling Memorial Scholarship for International Students

Margaret Ling Vocational Nursing Scholarship

Linkenheimer Accounting Scholarship

The Leona Dixon Lisignoli and Reno Lisignoli Police Officer Standards & Training Scholarship

The Leona Dixon Lisignoli and Reno Lisignoli SRT Scholarship

The Leona Dixon Lisignoli and Reno Lisignoli Vocational Scholarship

George Littrell Horse Management Scholarship

Livingston Radiologic Technology Highest Achievement Award

LoCoco Legacy Horticulture Scholarship

Glenn H. and Mildred B. Long Music Scholarship

Glenn H. and Mildred B. Long Multi-Year Music Scholarship

Joseph M. Long Award

Jose David Lopez Memorial Scholarship

Elrose G. and John B. Lounibos Scholarship

Sanford L. Lowe Scholarship for Excellence in Critical Religious Studies

John Patrick Lynch Memorial Journalism Scholarship

Jimmy MacDonald Peace Officers Scholarship

Margaret Donovan Maclay Memorial History Scholarship

Albert and Helen Maggini Public Service Award

Patricia Maggiora Memorial Art Scholarship

Robert Maggiora Memorial Business Scholarship

Jon Magoon Memorial Fund

Herold and Connie Mahoney Scholarship for Petaluma Campus Students

John and Eva Maiorka Memorial Scholarship

Paul Mancini Memorial Agriculture Scholarship

Jahna K. Muncrief-Zulauf Academic Scholarship

Oscar and Betty Mann Memorial Agriculture Scholarship

Audrey Call Marcelli Music Scholarship

Marin County Retired Teachers Association Scholarship

Marine Corps League Santa Rosa Detachment 686 Scholarship

Jena Marks Scholarship

Eve Martinelli Family Memorial Scholarship for El Molino High School Graduates

Crystal Hentze Marvin Memorial Scholarship Fund

Mary's Pizza Shack Scholarship in Memory of Mary Fazio

Bob and Jessie Mastin Athletic Scholarship

Jim Mathiesen Memorial SRJC Police Academy Scholarship Fund

John Thomas Efrem Mattern Memorial Debate Scholarship

Joyce E. Mattern Memorial EOPS Outstanding Transfer Student Award

Lieutenant Richard Lee Matthews Memorial Law Enforcement Scholarship

Mattis American Cultures Scholarship

James R. Mazzoni, Sr. and Dagmar Petersen Mazzoni Memorial Scholarship

Susie McCombs Memorial Scholarship

John L. McDonald, M.D. Paramedic Education Scholarship

The McNight Scholarship Fund

MEChA de SRJC Scholarship

Robert Medley Memorial Chemistry Department Scholarship

Linda Medsker Honors Society Award

Sydney and Laurie Meller Memorial Scholarship

Peggy Page Merga Reentry Scholarship

MESA Quest for Excellence Award

Doris Meyer Memorial Consumer and Family Studies Scholarship

MaryAnne Michaels Outstanding Student Award

Joan G. Michalek Culinary Arts Scholarship

Stan and Rose Michalek Sustainable Agriculture Scholarship

Dr. Roy G. Mikalson Scholarship for Students Pursuing Advanced Degrees

Milden-Mortensen 7-11 Petaluma Lions Club Scholarship

Ryan Miller Leadership Award

Gladys Dahlmann Milner Memorial Environmental Studies Scholarship

Dr. Nathan B. Miron Memorial Music Scholarship

Jeannette Mancini Mitchell Scholarship

Coach Bob Miyashiro Transfer Scholarship

Montgomery Village Lions Club Student Leader Scholarship

Ida Morgan Memorial Transferring Scholarship

Genevieve Mott Memorial Literary Scholarship

Fermin Murillo-Gonzalez Memorial Scholarship

Henry B. Murphy Memorial Scholarship

My Dog Molly Memorial Scholarship for Veterinary Technicians

Clark and Jo Nattkemper Science Education Scholarship

Randall J. Neff Memorial Teaching Scholarship

Wilma M. Nelson Scholarship

Randolph Newman Scholar Award

Randolph Newman SRJC Alumni and Friends Student Service Award

Randolph Newman Outstanding Continuing Student Leadership Award

Randolph Newman Outstanding Transferring Student Leadership Award

Chester Nicholls Memorial Forest Technology Scholarship

Ellis Nixon Life Sciences Scholarship

North Bay Wool Growers Auxiliary Betty & Oscar Mann/Harlan Wagner Memorial Scholarship

Northern California Farmworker Scholarship

Patricia Noren Memorial Scholarship

North Coast Mac Users Group, Roger Levit Memorial Scholarship

North Coast Wine & Visitor Center Wine Studies Work Experience Scholarship

Mildred Norton Memorial Art Scholarship

Mildred Norton Memorial Music Scholarship

Novato Garden Club, Inc.

Oakmont Art Association Scholarship

Margo O'Brien Business Scholarship

Laura Ojeda Memorial Scholarship

Judy Olin Memorial Landscape Design Scholarship

JoAnn Olsen Memorial Scholarship

Steve Olson Outstanding Agricultural Scholar - Leader Award

Frank Oman Memorial Construction Technology Scholarship

Omega Nu Bunni Cogsdell Memorial History Scholarship

Omega Nu Helen Sloat Grosman Memorial Literary Scholarship

Pat O'Neill Memorial Business Administration Scholarship

Osher Scholar Award

Osher/Lahm Scholar Award

Augusta Osman Transferring Scholarship

L.R. Ottinger Memorial Scholarship for Students from Lake County

Patrick Pacheco Memorial Teaching Scholarship for English Majors

Bonnie Panizzera Fashion Studies Scholarship

Dr. Chung Park Transferring Scholarship

Robert Lewis Parker Memorial Administration of Justice Scholarship

Docia Patchett Teaching Scholarship

Ben Pearson Memorial Scholarship

Patricia Becker Pedersen Agriculture Scholarship

William O. Pedersen Music Scholarship

William O. and Patricia B. Pedersen Business Scholarship

Marianne Pedroncelli Italian Studies Scholarship

Daniel L. Peletz Memorial Education Scholarship

Harold Peletz Memorial Business Administration Scholarship

Ruth Bailey Peletz Adult Reentry Multi-Year Scholarship

Ruth Bailey Peletz Adult Reentry Scholarship

Ruth Bailey Peletz Adult EOPS Scholarship

PEO Chapter HJ, Margaret Stevenson Memorial Nursing Scholarship

PEO Chapter JO, Santa Rosa Reentry Scholarship

PEO Chapter MH, Sebastopol Scholarship

PEO Chapter TH, Santa Rosa Reentry Scholarship

PEO Chapter UQ Scholarship

PEO Chapter UW, Petaluma Book Award

Petaluma Arts Association Scholarship

Petaluma Garden Club

Petaluma Woman's Club Scholarship

Randy Pexton Memorial Machine Tool Technology Scholarship

Pisenti & Brinker Accounting Scholarship

Bernard C. Plover Memorial Transferring Scholarship

Tony Pompeo Memorial Music Scholarship

Victor A. (Vic) Pozzi Scholarship

Elizabeth Quandt Art Prize Scholarship

Marian J. Quill Education Scholarship

Dr. Catherine Quinlan Memorial Transferring Scholarship

Barbara A. and William B. Race Health Sciences Scholarship

Margaret Kraemer Rainwater Memorial Scholarship

Joe and Sheba Rapaport Memorial Nursing Scholarship

Pearl Foster Ravenscroft and Henry A. Ravenscroft Memorial Music Scholarship

Catherine Raymond Environmental Conservation Scholarship

Redwood Empire Classic Chevy Club Scholarship

Redwood Empire Dental Society Paul Levine, D.D.S. Memorial Scholarship

Redwood Empire Construction Specifications Institute Scholarship

Rachel Rhodes Memorial Nursing Scholarship

Lynn and Leonard Riepenhoff Scholarship Fund

Maria Rifo Scholarship for ESL Students

Rincon Valley Women's Club Administration of Justice Scholarship

Rincon Valley Women's Club Associate Degree of Nursing Scholarship

Mariah Roat Memorial Scholarship

The Rodarmel Love of Learning Scholarship

Jason David Rolle Memorial Chemistry Scholarship

Fred and Jesse Rosenberg Memorial Transferring Scholarship

Rotary Club of Sebastopol

Rotary Club of Santa Rosa - Spence and Shirley Flournoy Memorial Scholarship

Rotary Club of Santa Rosa - Hardester Family Disability Scholarship

Rotary Club of Santa Rosa - Larry Bello Memorial Occupational Scholarship

Rotary Club of Santa Rosa - John E. Brown Memorial Veteran's Scholarship

Rotary Club of Santa Rosa - Jack Levar Memorial Scholarship

Rotary Club of Santa Rosa - Sorensen/Chase Scholarship

Rotary Club of Santa Rosa - Christopher Wood Memorial Scholarship

Rotary Club of Santa Rosa Foundation President's Scholarship

Rotary Club of Santa Rosa Foundation Trustees Scholarship

Rotary Club of West Santa Rosa Scholarship

Hans Roth Memorial Scholarship

Jack and Mattie P. Rudinow Peace Scholarship at SRJC

Russian River Rotary Viticulture Scholarship

Russian River Rotary Culinary Arts Scholarship

Nancy and Warren Ruud STEM Scholarship Fund

Joyce Rynearson Memorial Athletic Scholarship

Santa Rosa Evening Active 20-30 Club, Dee Duncan Memorial Scholarship

Santa Rosa Garden Club Scholarship

Santa Rosa Garden Club Marjorie Ogard Floral Award

Greg Sarris Native American Scholarship

Saturday Afternoon Club Scholarship

Dan William Scannell Memorial Administration of Justice Scholarship

Marjorie Kerr Schaffer Memorial Art Scholarship

Marjorie Kerr Schaffer Most Creative Sketchbook Award

Carol Cochran Schaffner Education Multi-Year Scholarship

Carol Cochran Schaffner Education Scholarship

Geneva Scheihing Native American Scholarship

Richard F. Schreuder Memorial Fund

August Sebastiani Memorial Native American Scholarship

H. Kent Seegmiller Theatre Arts Scholarship

June L. Severns Memorial Electronic Technology Department Scholarship

SGA Advocacy for Undocumented Students

R. Shapiro Family Foundation Scholarship

Bob Sharp Environmental Scholarship

Ella Sharrocks-Avison Memorial Vocational Nursing Scholarship

John R. Shaw III Memorial Wrestling Scholarship

Andrew Shepard Memorial Scholarship for Student Athletes

Rita Shepherd Memorial Scholarship

Sheridan-Lyman Associate Degree Nursing Scholarship

The Dick Shore Award

Violet Sigerist Nursing Scholarships

Lloyd Silacci Memorial Automotive Technology Scholarship

Christopher Silva Endowment

June L. Silva Scholarship

Jeanne Simons New Horizons ESL Scholarship

Ernestine I. Smith Scholarship

Kim Y. Smith Floristry Scholarship

Megan E. Smith Scholarship for Students with Disabilities

Winfield Smith Memorial Firefighters Scholarship

Joseph Smyth Memorial Reentry Scholarship

SNURB Scholarship Fund

John M. Soares Memorial Economics Scholarship

Sonoma County Abalone Network - George Lawry Scholarship

Sonoma County Association of Retired Employees (SCARE) Scholarship

Sonoma County Chorus, Chester Beck Memorial Scholarship

Sonoma County Employer Advisory Council Veterans Scholarship

Greg Walsh Memorial Scholarship sponsored by Sonoma County Employer Advisory Council

Sonoma County Farm Trails Memorial Scholarship

Sonoma County Farm Trails John Smith Memorial Scholarship

Sonoma County Farm Trails Phebe Sorensen Memorial Scholarship

Sonoma County Junior College District Police Department Scholarship

Sonoma County Law Enforcement Association Scholarship

Sonoma County Mayors' Committee on Employment of People with Disabilities Educational Scholarship

Southport Land & Commercial Company Scholarship

Vern Spence Scholarship

Irene Spiegel Nursing Scholarship Endowment

Dr. Curtis Sprenger Vocal Music Scholarship

Spring Lake Village Residents Nursing Scholarships

Kenneth Allen Springer Memorial Music Scholarship

SRJC Administration of Justice Book Awards:Klaas-Maughmer

SRJC Alumni and Friends Outstanding Faculty Recognition Award

SRJC Alumni and Friends Association Scholarship Honoring Dr. Roy G. Mikalson

SRJC Bookstore Scholarship

SRJC Tom Bower Theatre Arts Scholarship

SRJC College Skills Student Achievement Award

SRJC Engineering/Physics Department Memorial Scholarship

SRJC Horticulture Book Award

SRJC Irish Club Scholarship

SRJC Mathematics Department, Milton Hoehn Scholarship

SRJC Puente Transfer Scholarship

SRJC Radiologic Technology Scholarship

SRJC Retirees and Associates Scholarship

SRJC Marjorie A. Schultz Dance Scholarship

SRJC SRT Endowed

SRJC Student Equity Award

SRJC Wine Classic Scholarships

SRJC Women's Staff and Faculty Support Network Reentry Scholarship

S-STEM MILES Scholarship

Starke Family Scholarship

George D. Stewart Memorial Scholarship

Betty Jane Sthymmel Memorial Scholarship

Sharon E. Stockham Scholarship

Ben Stone Economics Scholarship

Julie Stone Memorial Scholarships

Sueños Scholarship

Sutter Medical Center Auxiliary Endowed Scholarship

Bill and Hilde Sweeney Theatre Arts Scholarship

Clarence "Cook" Sypher Memorial Scholarship

TEC Club Scholarship

Kevin and Erin Temple Foster Youth Scholarship

Sanford K. Thollaug Memorial Scholarship

Richard Thomas Wine Industry Scholarship

Thuestad Single Parent Scholarship

Pat Tognozzi SRJC Classified Senate Scholarship

Dr. Thomas M. and Sandra Torgerson Nursing Scholarship

Dwight and Janet Tracy Vocational Scholarship

Everett J. Traverso Scholarship

Frank Trejo Memorial Scholarship

Rhodes and Margaret B. Trussell Teaching Scholarship

Rhodes and Margaret B. Trussell Human Services Award

Margaret B. Trussell International Students Scholarship

Dr. Arthur Tye Memorial Life Sciences Scholarship

United Cerebral Palsy of the North Bay Scholarship

Patricia Van Schaick Dental Assisting Scholarship

Grace Comstock Van Zee Memorial Scholarship

Varenna Employees Scholarship

Luis Vázquez Memorial Scholarship

The Villa Family Scholarship honoring Laura Aspinall

Robert W. "Whitey" Waldron Memorial Administration of Justice Scholarship

Harold M. Walker Memorial Civil Engineering Scholarship

Walt Walters Memorial Viticulture/Enology Scholarship

Izaak Walton Forestry Award

Walter and Kathleen Ward Scholarship Fund

William and Shirley Ward Scholarship

Watercolor Artists of Sonoma County Scholarship

Mattie M. Washburn Memorial Scholarships for Windsor Students

Jerry Waxman Memorial Scholarship

Zana T. Weaver Memorial Transferring Scholarship

Natalie and Jack Weinstein Culinary Scholarship

Welfare League Rose Aleshin Memorial Child Development Scholarship

Welfare League Rose Aleshin Memorial Dental Hygiene Scholarship

Welfare League, Inc. Lesta Boyle Health Sciences Scholarship

Emma Hendrickson Wells Scholarship

Douglas L. and Philomena Whited Memorial Nursing Scholarship

Robert J Whiting Reentry Scholarship for Part-time Trade Technology/Vocational Students

Robert J. Whiting Transferring Scholarship

Robert J. Whiting Construction Technology Scholarship

Robert J. Whiting Diesel Equipment Technology Tool Award

Robert J. Whiting Vocational Scholarship

Mary DeBuhr Wilber Disability Resources Education Scholarship

James E. Wilcox Memorial Engineering Scholarship

Ed Wilkinson Memorial Administration of Justice Scholarship

Williams Scholarship

William and Violet Williams Engineering Scholarships

William and Violet Williams Physics Scholarships

William and Violet Williams Vocational Nursing Scholarships

Audrey Marie Wiltsey Memorial Transferring Scholarship

Audrey Marie Wiltsey Memorial Vocational Scholarship

Windsor Garden Club Scholarship

Women at Ground Zero Scholarship

Dr. Richard Gary Wong Scholarship for Santa Rosa High School Graduates

Al Wood Memorial Scholarship

Rebecca and Al Worden Memorial Art Scholarship

Juanita Wyatt Memorial Nursing Scholarship

Mary and Joseph Yacura Scholarship

Richard Kyle Young Memorial Wrestling Scholarship

Dominic Ciavonne Ziegler Memorial Scholarship

Ed and Elinor Zumwalt Automotive Technology Scholarship

Don Zumwalt Scholarship

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ASSOCIATE IN ARTS AND ASSOCIATE IN SCIENCE DEGREES

The Associate in Arts and Associate in Science degrees can be earned at Santa Rosa Junior College. Requirements for graduation with an Associate's Degree are prescribed by the California Community College System and the Board of Trustees of SRJC.

It is the student's responsibility to submit an Application for Degree by the deadline date during the semester in which he/she plans to complete the requirements. Official transcripts from all colleges previously attended should be submitted as part of the graduation evaluation process. Applicants are notified by mail of their eligibility for the degree.

Commencement exercises for August and December graduates and candidates for May graduation are held on a Saturday morning at the close of the semester in May. The graduation date is recorded on the student's permanent record at the end of the semester in which the requirements are met. Diplomas are mailed approximately four weeks later.

ASSOCIATE DEGREE FOR TRANSFER

The Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) are Associate Degrees designed to prepare students for transfer to the CSU system and earn an Associate Degree using the same requirements. They are intended to make it easier for CSU-bound students to successfully transfer by having universal lower-division major requirements for all 23 CSU campuses. Students can prepare to transfer to the CSU system using just one set of preparation courses for their major rather than having to meet different requirements for multiple campuses.

- In general, the Associate Degrees for Transfer offer a streamlined process for those transferring to the CSU system. There are other benefits as well:
- Guaranteed priority admission with junior status to a CSU campus with a "similar" major;
- GPA bump of .10 or .20 when applying to an impacted campus or major;
- After transfer to CSU, guaranteed degree completion within 60 semester units at the CSU

ASSOCIATE DEGREE FOR TRANSFER (A.A.-T OR A.S.-T):

1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following:
   A. General Education Pattern Option B: the California State University General Education-Breadth requirements OR General Education Pattern Option C: The Inter-segmental General Education Transfer Curriculum (IGETC) (In some instances the A.A.-T/A.S.-T will only allow for Option C, please be sure to check the specific TMC Template); and
   B. The Minimum degree specific semester units as required for each Associate in Arts or Associate in Science Transfer major.
2. Obtain an overall minimum grade point average of 2.0

3. Earn a grade of “C” or better in all courses required for the Associate in Arts or Associate in Science Transfer major.

The above requirements must be completed by the end of a Spring Semester if transferring in Fall. Also, please note that a higher GPA is generally required for majors declared impacted or in high demand - please check with a Counselor for more specific information.

GENERAL EDUCATION STATEMENT OF PHILOSOPHY

The General Education requirements for the Associate degree at Santa Rosa Junior College are intended to provide students with a broad yet integrated and coherent introduction to the skills, knowledge, and insights that are the foundation of a college education, the basis for career development, and the motivation for lifelong learning. The goal of General Education is to enable each student to recognize the value of intellectual inquiry, of physical well-being, of personal responsibility, and of ethical behavior; to discover the interdisciplinary nature of knowledge; to find joy in the process of self-discovery and creative expression; and to demonstrate critical awareness of and informed participation in the natural and social worlds in which we live. The intent of the educational ideals embodied in general education courses is to cultivate in each student:

An understanding of scientific principles and methods of inquiry.

An understanding of the complex and interdependent world and biosphere in which we live, including the issues that are essential to the long term well-being of the natural world and to the human community as part of that world.

Knowledge and appreciation of the arts, ideas, and values expressed in the world’s cultural traditions.

An understanding of history, the political and economic practices of societies, and the social and psychological dimensions of human behavior.

An understanding and appreciation of the differences and commonalties that exist within the pluralistic society of the United States, including the rights and responsibilities of participating within its democracy.

The completion of General Education at Santa Rosa Junior College represents a substantial achievement that has ongoing, lifelong value to the individual and to society.

GENERAL EDUCATION REQUIREMENTS

The College shall maintain a current listing of general education requirements for the AA/AS degrees and make them available in the College Catalog and the Schedule of Classes. Changes to the General Education requirements and to the AA/AS degrees shall be reviewed by the Board of Trustees.
The general education requirements for the California State University system and the Intersegmental General Education Transfer Curriculum (IGETC) are also published in the College Catalog and the Schedule of Classes.

Policy 3.1 Revised May 2013

DEGREE REQUIREMENTS

A student must fulfill all of the following degree requirements in order to receive an Associate in Arts or an Associate in Science Degree:

GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE’S DEGREE

For updated General Education Course Information, please see an SRJC Counselor or visit:
https://articulation.santarosa.edu/ge-breadth (https://articulation.santarosa.edu/ge-breadth)

Students have three options in meeting the General Education requirements toward earning an Associate in Arts or an Associate in Science Degree at Santa Rosa Junior College.
These three options are the following:

Option A
Complete the 23 units of the Associate's Degree General Education course requirements and the math competency requirement.
or

Option B
Complete the California State University (CSU) General Education requirements (full certification).
or

Option C
Complete the Intersegmental General Education Transfer Curriculum (IGETC) (full certification).

MAJOR REQUIREMENTS

To receive an Associate's Degree a student must complete a major course of study of at least 18 college units from the SRJC list of approved majors. A major provides coherence, focus, depth, sequencing, and synthesis of learning. A course may be used to satisfy both a General Education requirement and a major requirement (Title 5, 55806). Within the major, a course may not be used more than one time to meet a major requirement.

A student may submit a request for course substitution for major requirements. The course substitution form for the major is required if the student wishes to use a course for an Associate's Degree major that is different than the curriculum listed in the Catalog and on the Web site. The form can be obtained in the Admissions and Records Office. The student must then submit the form to the appropriate department for approval. Consultation with a counselor is highly recommended to assist the student with the process.

Major programs are listed in this Catalog; the most current list of majors is available at the SRJC Web site at **https://curriculum.santarosa.edu/all-majors (https://curriculum.santarosa.edu/all-majors)**.

UNIT REQUIREMENT

A student must complete a minimum of 60 units in courses numbered 1-299. Courses numbered 300-899 are designed to meet a variety of student needs and are not applicable toward Associate's Degree requirements. Students should plan their course of study carefully with the assistance of a college counselor.

RESIDENCE REQUIREMENT

A student must be enrolled during the semester in which the degree is granted. A minimum of 12 units must be completed at Santa Rosa Junior College.

SCHOLARSHIP REQUIREMENT

A student must have an overall minimum grade point average (GPA) of 2.00 ("C") or better in all Santa Rosa Junior College and transferred coursework submitted toward the degree. For all students admitted for the fall 2009 term or any term thereafter, a grade of "C" or better, or "P" if the course is taken on a pass/no pass basis, is required for each course applied toward the major.

CATALOG RIGHTS FOR MAJORS

Graduation requirements for an Associate's Degree are determined according to the Catalog in effect at the time of initial enrollment. In order to maintain catalog rights, a student must be in continuous enrollment, that is, enrollment in at least one credit course during each successive academic year.

For the purpose of catalog rights, the academic year begins each fall and ends with the subsequent summer session. When a break in enrollment occurs, graduation requirements are determined according to the Catalog in effect when enrollment is resumed. Students may choose to graduate under the Catalog in effect at the time that they apply for the Degree.

CONTINUOUS ENROLLMENT

Students who do not remain in continuous enrollment are subject to all academic policies and requirements as stated in the college Catalog in effect at the time of their resumption of enrollment. Continuous enrollment is defined as enrollment in at least one credit course during each successive academic year.

DEGREE HONORS

Degree honors are determined by the student's overall grade point average and includes transfer work submitted to SRJC. A student who has maintained a GPA between 3.20 and 3.39 will be graduated with honors; 3.40 and 3.59, with high honors; and 3.60 or higher, with highest honors.

ADDITIONAL ASSOCIATE'S DEGREES

Students who already possess an associate in science or associate in arts from Santa Rosa Junior College may be awarded an additional degree upon completion of the following:

1. All requirements in a major in a different field of study. Previous coursework may be used.
2. Any new areas of General Education in effect at the time the student re-enrolls if there has been a break in enrollment. (Please refer to Catalog Rights.)

Students seeking an Associate's Degree after having received an Associate's Degree from another regionally accredited community college may be awarded an additional Associate's Degree upon completion of the following:

1. All requirements in a major in a different field of study.
2. Twelve units in residence.
3. SRJC General Education areas not fulfilled at the previous institution.

Students who already possess a Bachelor's Degree or higher from a regionally accredited institution of higher education may be awarded an Associate's Degree upon completion of the following:

1. All requirements in a major in a different field of study.
2. Twelve units in residence.
3. A bachelor's degree or higher from a regionally accredited college in the United States will be accepted as fulfilling the General Education and Library and Information Resources (LIR) requirements for graduation.

Policy 3.2 Revised December 2012

TRANSFER CREDIT EVALUATION

Lower division credit is accepted for transfer from colleges accredited by recognized regional accrediting associations, but not if it duplicates credit for courses taken at Santa Rosa Junior College.

Official transcripts of all previous schooling should be sent directly to the Admissions and Records Office for evaluation. In-person submittals of official transcripts will only be accepted if delivered in a sealed envelope from the issuing institution. Transcripts will be evaluated after the student submits the Transfer Credit Evaluation Form available online at: **http://admissions.santarosa.edu/forms (http://admissions.santarosa.edu/forms)**. All transcripts become part of each student's permanent SRJC record and will not be released to other institutions or third parties.

ADVANCED PLACEMENT CREDIT

Santa Rosa Junior College awards credit for College Entrance Examination Board (CEEB) Advanced Placement (AP) Exams with scores of 3, 4, or 5. Students must have official AP score reports sent by the College Board to the SRJC Office of Admissions, Records, and Enrollment Development for evaluation.

To view the AP Credit Legislative Policy (AB 1985) and the SRJC AP Exam Credit chart listing SRJC course comparability and detailing how AP Exams meet General Education requirements, visit the SRJC Web site at **https://articulation.santarosa.edu/students-and-counselors (https://articulation.santarosa.edu/students-and-counselors)** -- click on "AP Exam Scores Worksheet". Please note that a few departments require a score of 4 or 5 to fulfill specific course requirements or place conditions on the award of credit. GE credit, however, follows policy set forth by AB 1985, requiring only a minimum score of 3 for appropriate GE Areas.

See the section on Assessment in this catalog for information on exemption from placement activities in math, chemistry, or English with AP scores of 3 or higher.

Please consult an SRJC Counselor about AP credit earned prior to 2011-12 or to discuss how AP credit fits into your educational plan. This is especially important for those intending to transfer to a four-year college or university, since each campus determines how AP Exams will apply toward credit in a major.

MILITARY CREDIT

Four units of credit are granted for honorable completion of basic training of United States military training as evidenced by a copy of the separation paper (DD214) on file in the Admissions and Records Office.

Additional credit for military courses may be granted upon evaluation of course content and as recommended in the American Council on Education Guide. Evidence of completion must be submitted to the Admissions and Records Office.

INTERNATIONAL BACCALAUREATE CREDIT

Credit for International Baccalaureate (IB) is granted for a limited number (some) Higher Level IB exams. No credit is granted for the subsidiary level exams. An official IB transcript must be submitted for credit review.

FOREIGN COURSEWORK

Credit may be awarded for foreign coursework after evaluation by a credentialed evaluation agency and review by the A&R office. A list of agencies recognized by SRJC may be obtained from A&R or the counselor.

Any credit granted by SRJC is subject to re-evaluation by any other college.

For more information, please visit: **http://admissions.santarosa.edu/incoming-sending-transcripts-srjc (http://admissions.santarosa.edu/incoming-sending-transcripts-srjc)**

2019-2020 ASSOCIATE IN ARTS OR ASSOCIATE IN SCIENCE GENERAL EDUCATION REQUIREMENTS OPTION A

For the 2019-20 Associate in Arts or Associate in Science General Education Requirements (Option A) please refer to:

https://catalog.santarosa.edu/sites/catalog.santarosa.edu/files/documents/Option%20A%20GE%202019-2020.pdf (https://catalog.santarosa.edu/sites/catalog.santarosa.edu/files/documents/Option%20A%20GE%202019-2020.pdf)

2019-20 CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION-BREADTH REQUIREMENTS AND ASSOCIATE'S DEGREE OPTION B

For 2019-2020 California State University General Education-Breadth Requirements and Associate's Degree (Option B) please refer to:

https://catalog-dev.santarosa.edu/sites/catalog.santarosa.edu/files/documents/Option%20B%20GE%202019-2020.pdf (https://catalog-dev.santarosa.edu/sites/catalog.santarosa.edu/files/documents/Option%20B%20GE%202019-2020.pdf)

2019-2020 TRANSFER PATTERN TO THE UC AND CSU SYSTEMS AND ASSOCIATE'S DEGREE GENERAL ED REQUIREMENTS OPTION C

For 2019-2020 Transfer Pattern to the UC and CSU systems and Associate's Degree General Ed Requirements (Option C) Please refer to:

https://catalog.santarosa.edu/sites/catalog.santarosa.edu/files/documents/Option%20C%20GE%202019-2020.pdf (https://catalog.santarosa.edu/sites/catalog.santarosa.edu/files/documents/Option%20C%20GE%202019-2020.pdf)

MAJOR REQUIREMENTS

The major is one of several requirements students need to fulfill in order to be awarded an Associate's Degree–the highest level of academic achievement recognized by Santa Rosa Junior College. (For more information, see the section, "Degree Requirements" in this Catalog.) All of the following requirements must be met in order for the degree to be conferred:

- A major
- A General Education Pattern
- A minimum number of degree units
- A minimum number of units taken in residence
- A minimum standard of scholarship

About the Major Requirement

The major is a defined program of study of at least 18.0 units from the SRJC list of approved majors. The program of study in a major provides coherence, focus, depth, sequencing, and synthesis of learning. In addition, majors are intended to provide the student with a foundation for transfer, training for an occupational field, or sufficient depth in a field of knowledge to contribute to lifelong interest.

THE SRJC MAJOR AND TRANSFER

It is important that students who are completing a major and desire to transfer to a four-year institution meet with a counselor to plan their lower division coursework. While many majors at SRJC are intended to align with lower division major preparation required by California public universities, specific lower-division major requirements vary among individual campuses. It is therefore vital that students meet early to create an educational plan that will enable them to meet the requirements of the transfer institution's major, as well as the requirements for the Associate's Degree. If an area of study is not on the approved list of SRJC majors, the student may still prepare for this major by taking appropriate lower division courses. Please discuss such preparation, as well as any questions about an approved major, with a counselor.

THE CAREER TECHNICAL EDUCATION MAJOR AND THE CERTIFICATE OF ACHIEVEMENT

Degree programs are often available for many Career Technical Education (CTE) fields that also have a Certificate of Achievement program. A student who has completed a certificate program may be awarded an Associate's Degree in a later semester providing that all major and degree requirements are met.

THE CAREER TECHNICAL EDUCATION MAJOR AND SELECTION PROCESSES

Some programs, particularly in the Health Sciences or Public Safety fields, may have a selection process for entering students. Please contact the department or a counselor for information about the selection process for any such program.

MULTIPLE MAJORS

It is possible for a student to be awarded more than one major upon graduation, providing that all requirements are met for each major. For multiple majors, a single diploma with all majors listed will be issued. If one major leads to an Associate in Science and the other to an Associate in Arts, two diplomas will be issued.

COURSEWORK REQUIREMENTS AND THE MAJOR

Generally stated, a requirement in a major is:

A . A designated course (e.g., ART 15)
B . A defined combination of courses (e.g., ART 2.1 and ART 2.2)
C . A set number of units that can be fulfilled from a list of courses (e.g., 3 units in any combination from the following: ART 1, 2, 3, 4, 10, 22, 56).

A student may submit a request for course substitution for major requirements. The course substitution form for the major is required if the student wishes to use a course for an associate degree major that is different than the curriculum listed in the Catalog and on the Web site. The form can be obtained in the Admissions and Records Office. The student must then

submit the form to the appropriate department for approval. Consultation with a counselor is highly recommended to assist the student with the process. Approved course substitutions apply to the requested major only and not to the SRJC General Education patterns (Options A, B, or C) nor any other SRJC major.

A course may be used to satisfy both a General Education Requirement and a major requirement (Title 5, 55806). However, no course may be used more than once to fulfill a requirement in the major.

TERM EFFECTIVE AND THE MAJOR

The requirements for a major are effective beginning the semester shown for each major. Students who began working on the approved major before the effective semester may not be affected by the changes because they have catalog rights. Please Note: Catalog Rights are not applicable for degree and certificate programs with a separate selection process (i.e., Nursing, Radiologic Technology, Dental Hygiene). Students will be held to the requirements listed in the major for the year in which they actually enter the program. Students should consult with the program contact person, department chair, or a counselor to determine their eligibility to complete the major under previous requirements (see also the section on "Catalog Rights" in this Catalog).

Note:

- Approved major programs are listed in this Catalog. However, the most current list of majors and their requirements is available at the SRJC Web site at www.santarosa.edu/majors.
- For list of inactivated majors, please refer to: **https://portal.santarosa.edu/SRWeb/ProgramsAdvancedSearch.aspx?ProgramType=0 (https://portal.santarosa.edu/SRWeb/ProgramsAdvancedSearch.aspx?ProgramType=0)**

2019-2020 LIST OF MAJORS

ADMINISTRATION OF JUSTICE (AS-T)

Program of Study Code: 002062

Term Effective: Fall 2017

18.00 Units

(707) 836-2904

achapman@santarosa.edu (mailto:achapman@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Science for Transfer in Administration of Justice major provides theoretical and practical instruction to prepare students for further study for a career in the criminal justice system and seamless transition to programs in the CSU system. This major fulfills the Transfer Model Curriculum for many CSU campuses. Students will have to fulfill the following requirements to earn this degree. 1. Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following: * The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth

requirements; and * A minimum of 18 semester units as required for the Associate in Science in Administration of Justice for Transfer major. 2. Obtainment of an overall minimum grade point average of 2.0. 3. Earn a grade of C or better in all courses required for the Associate in Science in Administration for Justice for Transfer major.

PROGRAM STUDENT LEARNING OUTCOMES

1. Analyze relationships and interactions between citizens and the criminal justice system in a social and cultural context and develop a communication style consistent with legal requirements that encompass cultural understanding;
2. evaluate situations and incidents to determine if a criminal law has been violated, and develop and implement an appropriate intervention strategy consistent with constitutional protections and safeguards;
3. evaluate and analyze a crime scene to ensure the proper recognition, identification, collection, preservation, and scientific analysis of physical evidence; and
4. examine the pre-trial, trial, and post-trial elements of the criminal justice system to ensure constitutional and statutory requirements are maintained consistent with public safety standards.

ADMINISTRATION OF JUSTICE REQUIRED CORE - COMPLETE 6.0 UNITS

AJ 21	Introduction to Administration of Justice	3.0
AJ 22	Concepts of Criminal Law	3.0

ADMINISTRATION OF JUSTICE LIST A - COMPLETE 6.0 UNITS

Complete any combination totaling at least 6.0 units from the following:

AJ 25	Community Relations	3.0
AJ 53	Juvenile Procedures	3.0
AJ 54A	Introduction to Evidence	3.0
AJ 54B	Basic Criminal Investigation	3.0
AJ 55	Criminal Court Process	3.0
AJ 70	Introduction to Corrections	3.0

ADMINISTRATION OF JUSTICE LIST B - COMPLETE 6.0 UNITS

Complete any combination totaling at least 6.0 units from the following:

AJ 25	Community Relations	3.0
AJ 53	Juvenile Procedures	3.0
AJ 54A	Introduction to Evidence	3.0
AJ 54B	Basic Criminal Investigation	3.0
AJ 55	Criminal Court Process	3.0
AJ 56	Crime and Criminal Justice in Society	3.0
AJ 70	Introduction to Corrections	3.0
AJ 71	Correctional Interviewing & Counseling	3.0
AJ 98	Independent Study in Administration of Justice	3.0
AJ 99I	Admin of Justice Occupational Work Experience Internship	8.0
MATH 15	Elementary Statistics	4.0

POLS 1	Introduction to United States Government	3.0
PSYCH 1A	General Psychology	3.0
SOC 1	Introduction to Sociology	3.0
SOC 2	Modern Social Problems	3.0

PROGRAM REQUIREMENTS NOTES:

A course used to satisfy a requirement in one category can not be used to fulfill the requirements in another category.

ADMINISTRATIVE OFFICE PROFESSIONAL (AS)

Program of Study Code: 002061

Term Effective: Fall 2018

48.50 Units

(707) 527-4458

kseder@santarosa.edu (mailto:kseder@santarosa.edu)

PROGRAM REQUIREMENTS:

The Administrative Office Professional Program is an academic Associate in Science degree program for students seeking employment in the administrative assistant fields. The curriculum integrates knowledge of office procedures based on actual job responsibilities. The Administrative Office Professional major prepares the student to be a member of an organization's business team. This program encompasses the integration of 21st Century workforce skills emphasizing communication, teamwork, project management, problem-solving, and systems development. A unique aspect of the program is the internship, which provides the student an opportunity to use their acquired skills in an office environment and gain experience in their profession before completing the program. Opportunities are available in private industry, non-profit organizations, and government offices. With experience and/or additional education, administrative office professionals may be promoted to management positions.

PROGRAM STUDENT LEARNING OUTCOMES

1. Effectively communicate on the telephone, in written form, or in person with diverse groups of people;
2. apply effective communication and collaborative skills when working in teams;
3. use storage and retrieval methods for physical and electronic systems;
4. design business information processing systems;
5. apply skills related to business information processing systems using the latest technologies;
6. work independently with little or no immediate supervision and know when to ask for additional assistance or refer decisions to a supervisor; and
7. interact with foreign business people applying appropriate communication skills and business practices between different cultures.

ADMINISTRATIVE OFFICE PROFESSIONAL - COMPLETE 24.5 UNITS

BBK 50	Computerized Bookkeeping and Accounting I	3.0
BGN 71	Business English Grammar	3.0
BGN 100	Professional Business Writing	1.5
BGN 102	Typing-Skill Building	1.5
BGN 110	Exploring Business Careers	1.0
BGN 111	Soft Skills for Business	3.0
BGN 112	Marketing Your Skills	3.0
BGN 205	Basic Filing	0.5
BOT 154	Office Procedures	3.0
CS 60.11A	Microsoft Word, Part 1	1.5
CS 61.11A	Microsoft Excel, Part 1	1.5

Complete any combination totaling at least 1.0 unit from the following:

BOT 99.1I	Business Office Tech Occupational Work Experience Internship	8.0
BOT 99.2I	Business Office Tech Occupational Work Experience Internship	8.0
BOT 99.3I	Business Office Tech Occupational Work Experience Internship	8.0

Complete any combination totaling at least 1.0 unit from the following:

BGN 203	10-Key Skills	0.5
BGN 204	Electronic Calculator	0.5
BMG 52	Business Communication	3.0
BOT 85.1	Legal Professions	1.0
BOT 85.4	Civil Litigation Practices and Procedures	1.5
BOT 85.5	Discovery Practices and Procedures	1.5
CS 57.11	Introduction to Social Media	3.0
CS 61.11B	Microsoft Excel, Part 2	1.5
CS 165.31	Microsoft Office Integration	0.5

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

AGRICULTURE ANIMAL SCIENCE (AS-T)

Program of Study Code: 002070

Term Effective: Fall 2019

21.00 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Science for Transfer in Agriculture Animal Science will provide current and relevant knowledge, skills and abilities through education and hands-on training in Agricultural Science, Animal Science and Agriculture Studies. The main objective of this major is to prepare students for career opportunities in these disciplines. The Associate in Science for Transfer in Agriculture Animal Science degree is designed to provide a clear pathway to a CSU major and baccalaureate degree in these disciplines. California Community College students who are awarded an AS-T are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a Counselor to develop an educational plan that best meets their goals and needs. Students are required to complete 60 semester units that are eligible for transfer to the California State University, including both of the following: (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements. (B) A minimum of 21 semester units in a major or area of emphasis, as determined by the community college district. Students are also required to obtain a minimum grade point average of 2.0. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is not an acceptable grade for courses in the major.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify and implement sustainable livestock management practices that will improve livestock quality, provide efficacious management, protect the natural resources and ensure economic viability of the livestock industry
2. Demonstrate a working knowledge of animal production life cycles to develop a ranch management calendar that incorporates scientifically based management decisions and the latest technological advances in livestock husbandry;
3. Identify and evaluate livestock anatomy and physiology and relate form to function;
4. Demonstrate knowledge of practical reproductive management of livestock species.

AGRICULTURE ANIMAL SCIENCE FOR TRANSFER REQUIRED CORE - COMPLETE 15.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

AGBUS 7	Agricultural Economics	3.0
ECON 2	Principles of Microeconomics	3.0
ANSCI 20	Basic Animal Science	3.0
CHEM 1A	General Chemistry	5.0
MATH 15	Elementary Statistics	4.0

AGRICULTURE ANIMAL SCIENCE FOR TRANSFER LIST A REQUIREMENTS - COMPLETE 6.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ANSCI 27	Beef Cattle Science	3.0
ANSCI 29	Dairy Cattle Industry/Dairy Cattle Science	3.0
EQSCI 25	Equine Science	3.0

Complete any combination totaling at least 3.0 units from the following:

ANSCI 2	Veterinary Practices	3.0
ANSCI 61	Livestock Feeding and Nutrition	3.0
CHEM 12A	Organic Chemistry	5.0

AGRICULTURE ANIMAL SCIENCE FOR TRANSFER LIST B REQUIREMENTS - COMPLETE 0.0 UNITS

Complete any course from the following:

AGBUS 2	Agricultural Computer Applications	3.0
AGBUS 56	Introduction to Agriculture Business and Management	3.0

NOTES:

A course used to satisfy the requirements in one category (List A, B, or C) cannot also be used to satisfy the requirements in another category.

AGRICULTURE BUSINESS (AS-T)

Program of Study Code: 002069

Term Effective: Fall 2019

22.00 Units

(707) 524-4648

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Science for Transfer in Agriculture Business will provide current and relevant knowledge, skills and abilities through education and hands-on training in Agriculture Business, Agriculture Studies, AgriBusiness, Ag Business and Food Industry Management. The main objective of this program is to prepare students for transfer and career opportunities in these areas. The Agriculture Business Associate in Science for Transfer degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate understanding of principles and strategies for selling and marketing in agribusiness;
2. Apply principles of demand, supply and price system to agribusiness.
3. Incorporate technology, communication skills, leadership, and business management skills.

AGRICULTURE BUSINESS FOR TRANSFER REQUIRED CORE - COMPLETE 13.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

AGRI 60	Soil & Plant Nutrition	3.0
CHEM 1A	General Chemistry	5.0
AGBUS 7	Agricultural Economics	3.0
ECON 1	Principles of Macroeconomics	3.0
MATH 15	Elementary Statistics	4.0

AGRICULTURE BUSINESS FOR TRANSFER LIST A REQUIREMENTS - COMPLETE 9.0 UNITS

Complete any combination totaling at least 9.0 units from the following:

AGBUS 2	Agricultural Computer Applications	3.0
AGBUS 56	Introduction to Agriculture Business and Management	3.0
AGRI 20	Introduction to Plant Science	3.0
ANSCI 20	Basic Animal Science	3.0

AGRICULTURE BUSINESS FOR TRANSFER LIST B REQUIREMENTS - COMPLETE 0.0 UNITS

Complete any course from the following:

BAD 1	Financial Accounting	4.0
BAD 2	Managerial Accounting	4.0
ECON 2	Principles of Microeconomics	3.0

NOTES:

A course used to satisfy the requirements in one category (List A, B, or C) cannot also be used to satisfy the requirements in another category.

AGRICULTURE PLANT SCIENCE (AS-T)

Program of Study Code: 002071

Term Effective: Fall 2018

21.00 Units

(707) 524-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Science for Transfer in Agriculture Plant Science will provide current and relevant knowledge, skills and abilities through education and hands-on training in Agriculture, Agriculture and Environmental Plant Sciences, Agricultural Science, Plant Science, Agriculture Education, and Agriculture Studies. The main objective of this major is to prepare students for career opportunities in these disciplines. The Associate in Science for Transfer in Agriculture Plant Science degree is designed to provide a clear pathway to a CSU major and baccalaureate degree in these disciplines. California Community College students who are awarded an AS-T are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a Counselor to develop an educational plan that best meets their goals and needs. Students are required to complete 60 semester units that are eligible for transfer to the California State University, including both of the following: 1. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements. 2. A minimum of 21 semester units in a major or area of emphasis, as determined by the community college district. Students are also required to obtain a minimum grade point average of 2.0. ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate relationships of plants, soils, and climates.
2. Analyze and compare plants, growing conditions, and types of crop production.
3. Identify and evaluate livestock anatomy and physiology and relate form to function;
4. Research and analyze production and marketing data for a proposed crop commodity.
5. Explain the economic aspects of agriculture and their implications to the market.

AGRICULTURE PLANT SCIENCE FOR TRANSFER CORE REQUIREMENTS - COMPLETE 18.0 UNITS

AGRI 20	Introduction to Plant Science	3.0
AGRI 60	Soil & Plant Nutrition	3.0

Complete any combination totaling at least 3.0 units from the following:

AGBUS 7	Agricultural Economics	3.0
ECON 2	Principles of Microeconomics	3.0
CHEM 1A	General Chemistry	5.0
MATH 15	Elementary Statistics	4.0

AGRICULTURE PLANT SCIENCE FOR TRANSFER LIST A REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

CHEM 12A	Organic Chemistry	5.0
HORT 8	Plant Materials: Summer/Fall	3.0
HORT 12	Plant Materials: Winter/Spring	3.0
HORT 70	Plant Propagation	3.0

AGRICULTURE PLANT SCIENCE FOR TRANSFER LIST B REQUIREMENTS - COMPLETE 0.0 UNITS

AGMEC 50

Agricultural Machinery and Equipment Skills		3.0

NOTES:

A course used to satisfy the requirements in one category (List A, B, or C) cannot also be used to satisfy the requirements in another category.

ANIMAL SCIENCE (AS)

Program of Study Code: 002024

Term Effective: Fall 2019

28.00 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

Animal Science is the study of animals that provide food, fiber, & companionship for mankind. Technological advances in the animal sciences have contributed to a safe, healthy, abundant, & inexpensive food supply. Income from animal agriculture contributes to more than 50 percent of the economic returns of American agriculture to the U.S. economy and accordingly, career opportunities abound for those trained in animal science.. The United States Department of Agriculture (USDA) reported that more than 48,000 jobs will be created annually for graduates with expertise in agriculture and related industries. By majoring in animal science at Santa Rosa Junior College, you can prepare yourself for one or more of the over 500 different jobs related to animal agriculture.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify and implement sustainable livestock management practices that will improve livestock quality, provide efficacious management, protect the natural resources and ensure economic viability of the livestock industry;
2. demonstrate a working knowledge of animal production life cycles to develop a ranch management calendar that incorporates scientifically based management decisions and the latest technological advances in livestock husbandry;
3. name and demonstrate proper use of equipment that humanely confines, treats or protects livestock;
4. identify and evaluate livestock anatomy and physiology and relate form to function;
5. demonstrate knowledge of practical reproductive management of livestock species;
6. define livestock nutritional needs and demonstrate proper feeding techniques related to growth, development and finishing of livestock;
7. list common infectious diseases and parasites and explain the role of preventative health; and
8. explain marketing strategies and market classification of livestock and their products.

ANIMAL SCIENCE MAJOR REQUIREMENTS - COMPLETE 27.0 UNITS

ANSCI 2	Veterinary Practices	3.0
ANSCI 20	Basic Animal Science	3.0
ANSCI 51		

Anatomy and Physiology of Farm Animals		3.0
ANSCI 52	Meat Science	3.0
ANSCI 61	Livestock Feeding and Nutrition	3.0
ANSCI 171	Livestock Behavior and Humane Management	1.0

Complete any combination totaling at least 6.0 units from the following:

ANSCI 27	Beef Cattle Science	3.0
ANSCI 29	Dairy Cattle Industry/Dairy Cattle Science	3.0
ANSCI 134	Livestock Reproduction	3.0
ANSCI 153	Sustainable Agriculture Production Systems with Animals	3.0
EQSCI 25	Equine Science	3.0

Complete any combination totaling at least 3.0 units from the following:

AGRI 20	Introduction to Plant Science	3.0
ANSCI 91	Rangeland Management	3.0

Complete any combination totaling at least 2.0 units from the following:

AGMEC 50	Agricultural Machinery and Equipment Skills	3.0
WELD 170	Beginning Welding: Fundamentals of Arc and Gas Welding	2.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

ANTHROPOLOGY (AA)

Program of Study Code: 001004

Term Effective: Fall 2019

19.00 Units

(707) 527-4605

bflyswithhawks@santarosa.edu (mailto:bflyswithhawks@santarosa.edu)

PROGRAM REQUIREMENTS:

Students completing the Anthropology major will develop skills and knowledge consistent with the study of anthropology in a global, multicultural, and comparative context. The successful student will have mastered the reading, writing, and research skills essential to anthropological inquiry and exposition. Completion of the program will provide the orientation and background necessary for success in the major at the university level.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify the major theoretical approaches, theorists, and historical trends in anthropology;
2. understand and use basic research methods in archaeology, cultural and biological anthropology, including design, data analysis and interpretation;
3. apply anthropological knowledge to understanding human diversity;
4. develop an understanding of self and others in diverse biological and cultural contexts;
5. apply critical thinking to anthropological theories and data; and
6. articulate thoughts effectively in written and oral communication.

ANTHROPOLOGY REQUIREMENTS - COMPLETE 19.0 UNITS

ANTHRO 1	Physical Anthropology	3.0
ANTHRO 1L	Physical Anthropology Lab	1.0
ANTHRO 2	Cultural Anthropology	3.0
ANTHRO 3	Prehistory & Archaeology	3.0

Complete any combination totaling at least 9.0 units from the following:

ANTHRO 4	Ancient Peoples and Society	3.0
ANTHRO 19	Forensic Anthropology	3.0
ANTHRO 21	American Folklore and Folklife	3.0
ANTHRO 30	Anthropology of Globalization	3.0
ANTHRO 31	Mesoamerican Origins of Latino Culture	3.0
ANTHRO 32	Native Cultures of North America	3.0
ANTHRO 34	Native Cultures of California	3.0
ANTHRO 43	Native American Art and Culture	3.0

ANTHROPOLOGY (AA-T)

Program of Study Code: 001071

Term Effective: Fall 2017

18.00 Units

(707)521-6905

bflyswithhawks@santarosa.edu (mailto:bflyswithhawks@santarosa.edu)

PROGRAM REQUIREMENTS:

Students completing the Associate in Arts for Transfer in Anthropology will develop skills and knowledge consistent with the study of anthropology in a global, multicultural, and comparative context. The successful student will have mastered the reading, writing, and research skills essential to anthropological inquiry and exposition. Completion of the degree program will provide the orientation and background necessary for success in the major at the university level. The Associate in Arts for Transfer in Anthropology degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify the major theoretical approaches, theorists, and historical trends in anthropology;
2. Understand and use basic research methods in archaeology, cultural and biological anthropology, including design, data analysis and interpretation;
3. Apply anthropological knowledge to understanding human diversity;
4. Develop an understanding of self and others in diverse biological and cultural contexts;
5. Apply critical thinking to anthropological theories and data; and
6. Demonstrate effective written and oral communication using anthropological concepts.

ANTHROPOLOGY FOR TRANSFER CORE REQUIREMENTS - COMPLETE 9.0 UNITS

ANTHRO 1	Physical Anthropology	3.0
ANTHRO 2	Cultural Anthropology	3.0
ANTHRO 3	Prehistory & Archaeology	3.0

ANTHROPOLOGY FOR TRANSFER LIST A REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ANTHRO 32	Native Cultures of North America	3.0
ANTHRO 43	Native American Art and Culture	3.0
MATH 15	Elementary Statistics	4.0

ANTHROPOLOGY FOR TRANSFER LIST B REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ANAT 1	General Human Anatomy	5.0
ANTHRO 32	Native Cultures of North America	3.0
ANTHRO 43	Native American Art and Culture	3.0
GEOL 1	The Earth	3.0
And		
GEOL 1L	Geology Lab	1.0
or		
MATH 15	Elementary Statistics	4.0
or		

PHYSC 21	Introduction to Earth Science	4.0

ANTHROPOLOGY FOR TRANSFER LIST C REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ANAT 1	General Human Anatomy	5.0
ANTHRO 1L	Biological Anthropology Lab	1.0
ANTHRO 4	Ancient Peoples and Society	3.0
ANTHRO 19	Forensic Anthropology	3.0
ANTHRO 21	American Folklore and Folklife	3.0
ANTHRO 30	Anthropology of Globalization	3.0
ANTHRO 31	Mesoamerican Origins of Latino Culture	3.0
ANTHRO 32	Native Cultures of North America	3.0
ANTHRO 34	Native Cultures of California	3.0
ANTHRO 43	Native American Art and Culture	3.0
MATH 15	Elementary Statistics	4.0
PHYSC 21	Introduction to Earth Science	4.0
GEOL 1	The Earth	3.0
And		
GEOL 1L	Geology Lab	1.0

NOTES:

A course used to satisfy the requirements in one category (List A, B, or C) cannot also be used to satisfy the requirements in another category.

ART (AA)

Program of Study Code: 001005

Term Effective: Fall 2018

24.00 Units

(707) 527-4397

hfuchigami@santarosa.edu (mailto:hfuchigami@santarosa.edu)

PROGRAM REQUIREMENTS:

The Art major is designed for students who are pursuing transfer majors in the fine arts, including Painting and Drawing, Printmaking, Graphic Design, Digital Arts, Photography, Ceramics, Sculpture, and related disciplines.

PROGRAM STUDENT LEARNING OUTCOMES

1. Synthesize and apply visual principles in creating works of art;
2. articulate perception and awareness of fine art and applied design concept;
3. develop a vocabulary to discuss art in aesthetic terms;

4. demonstrate skills in visual analysis by identifying specific formal elements in works of art;
5. demonstrate appropriate use of art tools, materials and processes;
6. achieve greater awareness of global and cultural traditions; and
7. create a portfolio of fine art and designs.

ART MAJOR REQUIREMENTS - COMPLETE 24.0 UNITS

ART 3	Introduction to Art & Design	3.0
ART 7A	Drawing & Composition 1	3.0

Complete any combination totaling at least 3.0 units from the following:

ART 4	Principles of Color	3.0
ART 5	Three Dimensional Design	3.0

Complete any combination totaling at least 6.0 units from the following:

ART 1.1	World Art History to 1500	3.0
And		
ART 1.2	World Art History Since 1500	3.0
or		
ART 2.1	History & Aesthetic Appreciation of Prehistoric - Gothic Art	3.0
And		
ART 2.2	History and Appreciation of Late Gothic to Impressionist Art	3.0

Complete any combination totaling at least 9.0 units from the following:

ART 2.3	History and Appreciation of Modern Art	3.0
ART 7B	Drawing and Composition 2	3.0
ART 12	Figure Drawing	3.0
ART 14A	Beginning Painting	3.0
ART 19	Elementary Photography	3.0
ART 24	Introduction to the Art of Printmaking	3.0
ART 31A	Beginning Ceramics	3.0
ART 33A	Beginning Sculpture	3.0
ART 50	Women and Art Since 1500	3.0
ART 69	Introduction to Cartooning and Sequential Art	3.0
ART 112A	Intermediate Figure Drawing	3.0
ART 112B	Advanced Figure Drawing	3.0

ART HISTORY (AA-T)

Program of Study Code: 001065

Term Effective: Fall 2019

21.00 Units

(707) 527-4397

hfuchigami@santarosa.edu (mailto:hfuchigami@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Arts for Transfer in Art History major is intended for the student seeking to transfer to a baccalaureate-granting institution to major in Art History. It provides a basic foundation in art history and appreciation, "hands on experience" in at least one studio art form, and cultural and historical background necessary to understanding the visual arts. The major may also be of interest to those seeking a foundation for lifelong learning. The Associate in Arts for Transfer in Art History is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree. (1) Complete 60 semester units that are eligible for transfer to the California State University, including both of the following: (A) The Inter-segmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth requirements; and (B) A minimum of 21-22 semester units as required for the Associate in Arts for Transfer in Art History major. (2) Obtain an overall minimum grade point average of 2.0 (3) Earn a grade of C or better in all courses required for the Associate in Arts for Transfer in Art History major.

PROGRAM STUDENT LEARNING OUTCOMES

1. Place a work of art in its historical and stylistic context;
2. Identify major monuments and movements in the history of art;
3. Develop a vocabulary to discuss art in aesthetic terms;
4. Demonstrate skills in visual analysis by identifying specific formal elements;
5. Refine critical analysis skills in comparing works of art;
6. Identify cultural artistic characteristics and global traditions; and
7. Recognize basic methods and materials used in architecture, painting, sculpture, print-making, ceramics metalwork, and textiles.

ART HISTORY FOR TRANSFER CORE REQUIREMENTS - COMPLETE 12.0 UNITS

ART 2.1	History & Aesthetic Appreciation of Prehistoric - Gothic Art	3.0

Complete any combination totaling at least 6.0 units from the following:

ART 2.2	History and Appreciation of Late Gothic to Impressionist Art	3.0

And

ART 2.3	History and Appreciation of Modern Art	3.0
ART 7A	Drawing and Composition 1	3.0

ART HISTORY FOR TRANSFER LIST A REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ART 1.1	World Art History to 1500	3.0
ART 1.2	World Art History Since 1500	3.0
ART 43	Women and Art Since 1500	3.0

ART HISTORY FOR TRANSFER LIST B REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ART 3	Introduction to Art and Design	3.0
ART 4	Principles of Color	3.0
ART 5	Three Dimensional Design	3.0
ART 12	Figure Drawing	3.0
ART 14A	Beginning Painting	3.0
ART 19	Elementary Photography	3.0
ART 24	Introduction to the Art of Printmaking	3.0
ART 27A	Beginning Screen Printing	3.0
ART 28A	Beginning Etching	3.0
ART 31A	Beginning Ceramics	3.0
ART 33A	Beginning Sculpture	3.0

ART HISTORY FOR TRANSFER LIST C REQUIREMENT - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ANTHRO 3	Prehistory & Archaeology	3.0
ANTHRO 21	American Folklore and Folklife	3.0
ANTHRO 30	Anthropology of Globalization	3.0
ANTHRO 31	Mesoamerican Origins of Latino Culture	3.0
ANTHRO 32	Native Cultures of North America	3.0
ANTHRO 34	Native Cultures of California	3.0
ANTHRO 43	Native American Art and Culture	3.0
COMM 2	Spoken Word	3.0
DANCE 2	Survey of Dance History	3.0
ENGL 1B	Literature and Composition	3.0
ENGL 2	Introduction to the Novel	3.0
ENGL 3	Introduction to Poetry	3.0
ENGL 7	Introduction to the Short Story	3.0
ENGL 10	Introduction to Environmental Literature	3.0
ENGL 12	Children's Literature	3.0
ENGL 25	Introduction to Language Study	3.0
ENGL 27	Introduction to Shakespeare	3.0
ENGL 30.1	American Literature: Pre-Colonial Period to the Civil War	3.0

ENGL 30.2	American Literature from 1865 to the Present	3.0
ENGL 31	African-American Literature	3.0
ENGL 33	Chicano/Chicana Arts and Literature	3.0
ENGL 46.1	Survey of English Literature Part 1	3.0
ENGL 46.2	Survey of English Literature Part 2	3.0
FREN 1	Elementary French-Part 1	4.0
FREN 2	Elementary French-Part 2	4.0
FREN 3	Intermediate French-Part 1	4.0
FREN 4	Intermediate French-Part 2	4.0
GD 15	History of Graphic Design	3.0
GERM 1	Elementary German-Part 1	4.0
GERM 2	Elementary German-Part 2	4.0
GERM 3	Intermediate German-Part 1	4.0
GERM 4	Intermediate German-Part 2	4.0
HIST 1.1	World History to 1500	3.0
HIST 1.2	World History Since 1500 C.E.	3.0
HIST 4.1	History of Western Civilization to 1648 C.E.	3.0
HIST 4.2	History of Western Civilization from 1648 C.E.	3.0
HIST 8.1	History of Latin America from Pre-Columbian to 1830	3.0
HIST 8.2	History of Latin America from 1830 to Present	3.0
HIST 22	History of California	3.0
HIST 26	History of Chicanos and Latinos from 1848 to Present	3.0
HIST 30	African American History	3.0
HIST 33	History of Mexico	3.0
HUMAN 4.1	Western Humanities: Arts, Ideas, and Values	3.0
HUMAN 4.2	Western Humanities From 1600	3.0
HUMAN 5	World Humanities: Arts, Ideas, Values	3.0
HUMAN 6	Humanities in the United States	3.0
HUMAN 7	Introduction to the Humanities	3.0
HUMAN 8	Comparative Mythology	3.0
HUMAN 20	The Humanities in Asia: Arts, Ideas and Values	3.0
HUMAN 21	The Humanities in the Middle East	3.0
HUMAN 22		

Humanities in Africa: Arts, Ideas, and Values		3.0
ITAL 1	Elementary Italian-Part 1	4.0
ITAL 2	Elementary Italian-Part 2	4.0
ITAL 3	Intermediate Italian-Part 1	4.0
ITAL 4	Intermediate Italian-Part 2	4.0
ITAL 39.1	Introduction To Italian Literature In Translation	3.0
ITAL 70A	Intermed Italian Conversation & Culture Thru Film I	3.0
MEDIA 4	Introduction to Mass Communication	3.0
MEDIA 14	Early Film History	4.0
MEDIA 15	Modern Film History	4.0
MUSC 6.1	Music History and Literature: Antiquity to 1750	3.0
MUSC 6.2	Music History and Literature: 1750-Present	3.0
MUSC 7	Classical Music Appreciation	3.0
MUSC 8	World Music Appreciation	3.0
MUSC 9	Jazz Appreciation	3.0
PHIL 6	Introduction to Philosophy	3.0
PHIL 7	Contemporary Moral Issues	3.0
PHIL 9	Political Philosophy	3.0
PHIL 10	Philosophy of Peace and Nonviolent Action	3.0
PHIL 11	Introduction to Asian Philosophy	3.0
PHIL 12	Environmental Philosophy	3.0
PHIL 20	History of Western Philosophy: Ancient and Medieval	3.0
PHIL 21	History of Western Philosophy: Modern	3.0
RELS 1	Introduction to Religious Studies	3.0
RELS 2	World Religions	3.0
RELS 3	History of God	3.0
RELS 6.66	History of Satan	3.0
RELS 15	Islam	3.0
RELS 21	The Hebrew Bible	3.0
RELS 22	Early Christian Literature	3.0
RELS 32	Religion in America	3.0
SPAN 1	Elementary Spanish-Part 1	4.0
SPAN 2	Elementary Spanish-Part 2	4.0
SPAN 3	Intermediate Spanish-Part One	4.0
SPAN 4	Intermediate Spanish-Part 2	4.0
THAR 1	World Theatre Through Time	3.0
THAR 2	Introduction to Theatre Arts	3.0

THAR 6	Multicultural Perspectives in American Theatre	3.0

AUTOMOTIVE TECHNOLOGY (AA)

Program of Study Code: 001039

Term Effective: Fall 2019

49.00 Units

(707) 535-3772

dlemmer@santarosa.edu (mailto:dlemmer@santarosa.edu)

PROGRAM REQUIREMENTS:

The Automotive Technology major offers both theoretical and hands-on training, including engine overhaul, ignition systems, fuel systems, pollution control systems, electrical systems, drive trains, brake systems, suspension systems, and hybrid & electric vehicle systems.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate safe operation of hand tools, power tools and specialized automotive tools and equipment;
2. perform entry level diagnoses and repair of automotive engines, electrical systems, transmissions, engine performance, brakes, chassis and emissions control systems;
3. demonstrate basic maintenance and welding skills; and
4. access and interpret automotive service information and schematics both manually and on the computer.

AUTOMOTIVE TECHNOLOGY REQUIREMENTS - COMPLETE 48.0 UNITS

AUTO 80	Introduction to Automotive Technology	3.0
AUTO 126	Mobile Heating and Air Conditioning Systems	2.5
AUTO 151	Automotive Engines	7.0
AUTO 153	Automotive Engine Performance and Pollution Control	7.0
AUTO 154	Automotive Brakes, Steering, and Suspension	7.0
AUTO 155	Automotive Drive Train	6.0
AUTO 156	Automotive Electrical System	5.0
AUTO 194	Introduction to Hybrid Vehicle Maintenance and Repair	4.0
IED 190	Industrial Mathematics	1.5
WELD 170	Beginning Welding: Fundamentals of Arc and Gas Welding	2.0

Complete any combination totaling at least 3.0 units from the following:

AUTO 99	Automotive Occupational Work Experience	8.0
AUTO 108	Clean Air Car Course: BAR Levels 1 & 2	5.0
AUTO 120	Automotive Service Advisor, Business Ethics, and Management	3.0
BGN 101	Typing	1.5
ELEC 51A	Fundamentals of Electricity	3.0
MACH 51A	Beginning Machine Tool Technology	2.0
MACH 51B	Advanced Machine Tool Technology	2.0
WELD 171.1	Advanced Shielded Metal Arc Welding	2.0
WELD 171.2	Gas Metal Arc Welding and Gas Tungsten Arc Welding	2.0
WELD 171.3	Flux Core Arc Welding (FCAW)	2.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

It is recommended that students with no automotive work experience or high school auto shop begin with course AUTO 80 Introduction to Automotive Technology.

BIOLOGY (AS)

Program of Study Code: 002018

Term Effective: Fall 2018

41.00 Units

(707) 524-1813

swilson@santarosa.edu (mailto:swilson@santarosa.edu)

PROGRAM REQUIREMENTS:

The Biology major is designed for students who are pursuing transfer to four year programs in the biological sciences, including general biology, cell or molecular biology, organism biology, marine biology, botany, zoology, ecology, environmental sciences, evolution, genetics, anatomy, physiology, microbiology, and agricultural sciences.

The major is also designed for students planning to pursue careers in dentistry, medicine, veterinary medicine, or physical therapy. It is not designed, however, to meet the needs of students interested in pursuing studies in allied health fields. Please see a counselor for assistance in choosing an appropriate major, or to begin this program.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply the scientific method to investigating and evaluating biological phenomenon and summarize results in written scientific format;
2. perform laboratory techniques, including microscopy, with a high level of expertise without assistance or instruction;
3. synthesize evolutionary mechanisms, trends, and history with biodiversity;
4. integrate the levels of biological organization including cell mechanisms, anatomy, physiology, genetics, ecology, and evolution;
5. investigate human interactions with all levels of biological processes emphasizing the principles of ecosystem, community, population ecology, and global human impacts;
6. apply knowledge of biological organisms and principles in advanced courses in order to transfer to four year institutions.

BIOLOGY MAJOR CORE REQUIREMENTS - COMPLETE 40.0 UNITS

BIO 2.1	Fundamentals of Biology (Cell and Molecular)	5.0
BIO 2.2	Fundamentals of Biology (Evolution, Genetics, and Zoology)	5.0
BIO 2.3	Fundamentals of Biology (Botany and Ecology)	5.0
BIO 10	Introduction to Principles of Biology	4.0

Complete any combination totaling at least 10.0 units from the following:

CHEM 1A	General Chemistry	5.0
And		
CHEM 1B	General Chemistry	5.0

Complete any combination totaling at least 7.0 units from the following:

PHYS 20	General Physics Lecture Part I	3.0
And		
PHYS 21	General Physics Lecture Part II	3.0
And		
PHYS 20L	General Physics Lab Part I	1.0
or		
PHYS 20	General Physics Lecture Part I	3.0
And		
PHYS 21	General Physics Lecture Part II	3.0
And		
PHYS 21L	General Physics Lab Part II	1.0
or		
PHYS 40		

Classical Mechanics for Scientists and Engineers		5.0

And

PHYS 41	Waves, Optics and Thermodynamics for Scientists & Engineers	4.0

Complete any combination totaling at least 4.0 units from the following:

MATH 1A	Calculus, First Course	5.0
MATH 15	Elementary Statistics	4.0
MATH 27	Precalculus Algebra and Trigonometry	5.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

BUSINESS ADMINISTRATION (AS-T)

Program of Study Code: 002065

Term Effective: Fall 2017

26.00 Units

(707) 527-4435

bad-admin@santarosa.edu (mailto:bad-admin@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Science for Transfer in Business Administration degree will provide students with the lower division course work to successfully prepare for upper division work. The Business Administration Associate in Science for Transfer degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree. 1. Completion of 60 units that are eligible for transfer to the California State University, including both of the following: * The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements; and * A minimum of 26 semester units as required for the Associate in Science for Transfer in Business Administration major. 2. Obtainment of an overall minimum grade point of 2.0. 3. Earn a grade of C or better in all courses required for the Associate in Science for Transfer in Business Administration major.

PROGRAM STUDENT LEARNING OUTCOMES

1. Satisfy the educational requirements necessary to successfully pursue a baccalaureate degree in Business Administration;
2. demonstrate analytical, critical thinking, and decision-making skills required to succeed in a business context;
3. demonstrate an understanding of the complex nature of business in a diverse global economy with the integration of ethics and social responsibility; and
4. integrate knowledge of the elements of American business and economic principles including accounting, law, management, marketing, and human relations in organizations.

BUSINESS ADMINISTRATION FOR TRANSFER CORE REQUIREMENTS - COMPLETE 17.0 UNITS

BAD 1	Financial Accounting	4.0
BAD 2	Managerial Accounting	4.0
BAD 18	The Legal Environment of Business	3.0
ECON 1	Principles of Macroeconomics	3.0
ECON 2	Principles of Microeconomics	3.0

BUSINESS ADMINISTRATION FOR TRANSFER LIST A - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

MATH 9	Finite Mathematics	3.0
MATH 15	Elementary Statistics	4.0
MATH 16	Introduction to Mathematical Analysis	4.0

BUSINESS ADMINISTRATION FOR TRANSFER LIST B PART 1 - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

BAD 10	American Business in Its Global Context	3.0
BMG 52	Business Communication	3.0
MATH 9	Finite Mathematics	3.0
MATH 15	Elementary Statistics	4.0
MATH 16	Introduction to Mathematical Analysis	4.0

BUSINESS ADMINISTRATION FOR TRANSFER LIST B PART 2 - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

CS 5	Computer Literacy	3.0
CS 84.21	Management Information Systems	3.0
MATH 9	Finite Mathematics	3.0
MATH 15	Elementary Statistics	4.0
MATH 16		

	Introduction to Mathematical Analysis	4.0

NOTES:

Any course used to satisfy the List A requirement cannot be used to fulfill the requirement for List B.

Business Administration majors are strongly encouraged to also take BAD 53, Introduction to Solving Business Problems with Spreadsheets.

Students are strongly encouraged to take two Math courses. Most CSU campuses require two Math courses. Check with a counselor to determine the requirement for the campus that you plan to attend.

Students whose Math placement is not at MATH 155 or higher will need to take MATH 155 as a prerequisite to ECON 1, ECON 2, and MATH 9, 15, or 16.

BUSINESS: HUMAN RESOURCE ADMINISTRATION (AA)

Program of Study Code: 001044

Term Effective: Fall 2019

27.50 Units

(707) 527-4435

ewebster@santarosa.edu (mailto:ewebster@santarosa.edu)

PROGRAM REQUIREMENTS:

Within every organization, at least one employee is responsible for the Human Resources activities. The Human Resource Administration program of study provides students with the opportunity to gain skills that can be applied to any organization. These involve compliance with employment law when maintaining personnel files, tracking employee leaves, administering employee benefits, administering and regulating salaries, and maintaining payroll. Students learn how to handle confidential information and sensitive situations.

PROGRAM STUDENT LEARNING OUTCOMES

1. Interpret and apply employment laws in a variety of complex human resource situations;
2. demonstrate competency in specific human resource administrative responsibilities in the areas of hiring, salary administration, benefits administration, and records administration;
3. apply necessary skills required for managing the complex human interactions and communications that take place in organizations; and
4. demonstrate an understanding of the strategic role of human resource management in a modern organizational setting; and
5. demonstrate the technical skills needed in the human resources field.

BUSINESS: HUMAN RESOURCE ADMINISTRATION REQUIREMENTS - COMPLETE 16.0 UNITS

BAD 52	Human Relations in Organizations	3.0

BMG 53	Oral Communication in Organizations	3.0
HR 60	Human Resource Management	3.0
HR 61	Human Resource Employment Law	1.5
HR 62	Human Resource Records	1.0
HR 63	Human Resource Hiring Process	1.0
HR 64	Human Resource Salary Administration	1.0
HR 65	Human Resource Benefits Administration	1.5
HR 66	Human Resource Administration Current Applications	1.0

BUSINESS: HUMAN RESOURCE ADMINISTRATION ELECTIVES A - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

BAD 1	Financial Accounting	4.0
BBK 50	Computerized Bookkeeping and Accounting 1	3.0
BBK 52.1	Payroll Record Keeping and Reporting	3.0
BGN 112	Marketing Your Skills	3.0
BMG 55	Fundamentals of Financial Analysis	3.0
HR 99I	Human Resources Occupational Work Experience Intern	8.0
PSYCH 34	The Psychology of Prejudice and Discrimination	3.0

BUSINESS: HUMAN RESOURCE ADMINISTRATION ELECTIVES B - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

CS 61.11	Microsoft Excel	3.0
CS 61.11A	Microsoft Excel, Part 1	1.5
CS 61.11B	Microsoft Excel, Part 2	1.5

BUSINESS: HUMAN RESOURCE ADMINISTRATION ELECTIVES C - COMPLETE 4.5 UNITS

Complete any combination totaling at least 4.5 units from the following:

BGN 71	Business English Grammar	3.0
BGN 100	Professional Business Writing	1.5
BMG 52	Business Communication	3.0
ENGL 1A	College Composition	4.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

PROGRAM REQUIREMENTS NOTES:

HR 66 must be the final course taken in the sequence for this program.

NOTES:

HR 60 is the orientation course for this program.

BUSINESS: REAL ESTATE (AA)

Program of Study Code: 001034

Term Effective: Fall 2019

19.00 Units

(707) 527-4362

sherndon@santarosa.edu (mailto:sherndon@santarosa.edu)

PROGRAM REQUIREMENTS:

The Business: Real Estate major will provide students the opportunity to obtain entry-level positions and build their career within the area of real estate. Students will complete courses that meet continuing education requirements for the State of California's Real Estate Salesperson license and that are approved as an education requirement for both the State of California's Broker's license and California Appraiser Qualifications Board Exam. Students will benefit by the additional option of having a real estate major reflected on their Associate Degree.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply an in-depth knowledge of California Real estate principles and laws to successfully complete licensure requirements for licensee and broker;
2. satisfy Department of Real Estate and Office of Real Estate Appraisers educational requirements for state licensing;
3. apply necessary skills required for marketing and negotiating real estate transaction;
4. demonstrate the ability to communicate effectively and ethically with the principals involved in a real property transaction; and
5. interpret and apply California real estate laws to a variety of real property transactions.

BUSINESS: REAL ESTATE MAJOR REQUIREMENTS - COMPLETE 18.0 UNITS

Complete any combination totaling at least 18.0 units from the following:

RE 50	Real Estate Principles	3.0
RE 51	Real Estate Practice	3.0

RE 52	Real Estate Finance	3.0
RE 53	Residential Real Estate Appraisal	3.0
RE 54	Commercial Real Estate Appraisal	3.0
RE 55	Legal Aspects of Real Estate	3.0
RE 56	Real Estate Economics	3.0
RE 57	Property Management in California	3.0
RE 58	Real Estate Escrow	3.0
RE 59	Advanced Residential Appraisal	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

BMG54 is an approved substitute for BGN81.

CHEMISTRY (AS)

Program of Study Code: 002047

Term Effective: Fall 2018

40.00 Units

(707) 521-7852

miimura@santarosa.edu (mailto:miimura@santarosa.edu)

PROGRAM REQUIREMENTS:

The Chemistry degree is designed for students who are planning to transfer as Chemistry majors, and who subsequently are planning to pursue a career in industrial research and development, medicine, science teaching, toxicology, pharmacy, environmental studies, space studies or other related fields. To complete this major, students must complete a library research course and 39 units of preparatory chemistry, math and physics courses that are required by accredited four-year institutions. Additional courses must be taken to satisfy the General Education requirements of Santa Rosa Junior College.

PROGRAM STUDENT LEARNING OUTCOMES

1. Relate observable phenomena to molecular events according to prevailing chemical theories;
2. identify, synthesize, predict and explain the structure of a variety of compounds, both inorganic and organic;
3. accurately and safely obtain and analyze data from experimental sources, including traditional laboratory methods, computer-interfaced data collection devices, and advanced analytical instrumentation;
4. use critical thinking skills to analyze applications of chemical knowledge and theories; and
5. communicate effectively the results of laboratory experiments, including error analysis.

CHEMISTRY MAJOR REQUIREMENTS - COMPLETE 39.0 UNITS

CHEM 1A	General Chemistry	5.0
CHEM 1B	General Chemistry	5.0
CHEM 12A	Organic Chemistry	5.0
CHEM 12B	Organic Chemistry	5.0
MATH 1A	Calculus, First Course	5.0
MATH 1B	Calculus, Second Course	5.0
PHYS 40	Classical Mechanics for Scientists and Engineers	5.0
PHYS 41	Waves, Optics and Thermodynamics for Scientists & Engineers	4.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

CHILD DEVELOPMENT (AA)

Program of Study Code: 001002

Term Effective: Fall 2017

31.00 Units

(707) 527-4315

ygarcia2@santarosa.edu (mailto:ygarcia2@santarosa.edu)

PROGRAM REQUIREMENTS:

This major will prepare students for careers in Child Care and Preschool Education. It parallels the academic requirements of the Child Development Teacher Permit issued by the California Commission on Teacher Credentialing.

PROGRAM STUDENT LEARNING OUTCOMES

1. Integrate an understanding of the potential, the characteristics, and the multiple influences on the development of children into the delivery of high quality care and education programs;
2. design, implement and evaluate play based environments and activities that support developmentally appropriate learning outcomes for all young children;
3. apply effective guidance and interaction strategies that support all children's social learning, identity and self-esteem;
4. develop strategies that promote relationships between programs, teachers, families and their communities; and
5. demonstrate ethical standards and professional behaviors that reflect understanding, knowledge and a commitment to the field of early childhood education and care.

CHILD DEVELOPMENT MAJOR REQUIREMENTS - COMPLETE 27.0 UNITS

CHLD 10	Child Growth and Development	3.0
CHLD 51	Principles and Practices of Early Childhood Education	3.0
CHLD 66	Early Childhood Care and Education Practicum	6.0
CHLD 68	Working With Children and Families in a Diverse Society	3.0
CHLD 90.1	Child, Family, Community Interrelationships	3.0
CHLD 90.2	Observation and Assessment of Young Children	3.0
CHLD 90.3	Health, Safety and Nutrition for the Young Child	3.0
CHLD 90.4	Introduction to Curriculum	3.0

CHILD DEVELOPMENT ELECTIVES - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

CHLD 53A	Introduction to Children with Special Needs	3.0
CHLD 53B	Supporting Children w/ Special Needs in Early Childhood Prgm	3.0
CHLD 55.2	Exploring Science and Math with Young Children	3.0
CHLD 55.5	Foundations of Language and Literacy	3.0
CHLD 55.6	Art for the Young Child	3.0
CHLD 55.7	Music and Movement for Children	3.0
CHLD 79.1	Administration of Early Childhood Education Programs	3.0
CHLD 79.2	Leadership & Personnel Skills for Early Child. Administrator	3.0
CHLD 79.4	Adult Supervision and Mentoring	2.0
CHLD 95	Developing Social Competence in the Early Childhood Years	3.0
CHLD 96	Working Through Stress and Loss With Children and Families	3.0
CHLD 111A	Group Care For Children Under Three	3.0
CHLD 150	Exploring the Natural World with Young Children	1.0
CHLD 185.1	Creative Indoor Environments for Young Children	1.0
CHLD 185.2		

Creative Outdoor Environments for Young Children		1.0
CHLD 185.3	Guidance & Discipline Techniques-Preschool & Early Primary	1.0
CHLD 186	Spanish Language Arts for Young Children	3.0
CHLD 217.1	Constructive Play	1.0
CHLD 217.2	Dramatic Play and Games with Rules	1.0
CHLD 220	Effective Guidance and Discipline	2.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

No course may be used more than once to fulfill a requirement in the major. A grade of "C" or better is required for all major classes.

CHLD 66 has replaced CHLD 60 and CHLD 60.2

CIVIL ENGINEERING TECHNOLOGY (AS)

Program of Study Code: 002016

Term Effective: Fall 2017

23.50 Units

(707) 527-4603

rparks@santarosa.edu (mailto:rparks@santarosa.edu)

PROGRAM REQUIREMENTS:

The Civil Engineering Technology program prepares students for variety of technical positions in the civil engineering and engineering construction professions. The program recommended course sequence is set up to allow the student to progress through four semesters and achieve an Associates Degree or Certificate of Achievement.

CIVIL ENGINEERING TECHNOLOGY AND SURVEYING TECHNOLOGY CORE REQUIREMENTS - COMPLETE 22.5 UNITS

APTECH 191	Problem Solving in Civil Engineering Technology	3.0
CEST 51	Civil Drafting Technology	3.0

CEST 63	Subdivision Planning	3.0
CEST 64	Public Works Inspection & Testing	3.0
CEST 65	Public Works Plans and Estimating	3.0
CEST 85	CAD for Civil, Surveying & Land Development	3.0
CEST 192	Non-Technical Skills for the Civil Engineering Technician	1.5
GIS 40	Introduction to Geographic Information Systems (GIS)	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

COMMUNICATION STUDIES (AA-T)

Program of Study Code: 001054

Term Effective: Fall 2019

18.00 Units

(707) 527-4217

mnelson@santarosa.edu (mailto:mnelson@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Arts for Transfer in Communications Studies degree at Santa Rosa Junior College provides students with an introduction to and overview of the field of communications while providing a solid foundation in Speech. Students are provided both theoretical perspectives and practical speaking experience, including the opportunity to be a part of a national award-winning Speech & Debate team and/or being part of the student newspaper, The Oak Leaf. This emphasis offers comprehensive lower division baccalaureate work in the field of Communication.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply communication theory to more effectively communicate in a variety of public, private and social context;
2. effectively express one's ideas through oral communication; and
3. utilize critical thinking skills to defend, refute and critique presentations.

COMMUNICATION STUDIES FOR TRANSFER - COMPLETE 3.0 UNITS

COMM 1	Introduction to Public Speaking	3.0

COMMUNICATION STUDIES: LIST A - COMPLETE 6.0 UNITS

Complete any combination totaling at least 6.0 units from the following:

COMM 3	Introduction to Argumentation	3.0
And		
COMM 5	Group Discussion and Problem Solving	3.0
or		
COMM 3	Introduction to Argumentation	3.0
And		
COMM 6	Interpersonal Communication	3.0
or		
COMM 9	Critical Thinking and Argumentation	3.0
And		
COMM 5	Group Discussion and Problem Solving	3.0
or		
COMM 9	Critical Thinking and Argumentation	3.0
And		
COMM 6	Interpersonal Communication	3.0
or		
COMM 5	Group Discussion and Problem Solving	3.0
And		
COMM 6	Interpersonal Communication	3.0

COMMUNICATION STUDIES: LIST B - COMPLETE 6.0 UNITS

Complete any combination totaling at least 6.0 units from the following:

COMM 2	Spoken Word	3.0
COMM 3	Introduction to Argumentation	3.0
COMM 5	Group Discussion and Problem Solving	3.0
COMM 6	Interpersonal Communication	3.0
COMM 7	Intercultural Communication	3.0
COMM 9	Critical Thinking and Argumentation	3.0
COMM 10	Introduction to Communication Studies	3.0
COMM 52A	Forensics 1 (SRJC Speech Team)	6.0
COMM 52B	Forensics 2 (SRJC Speech Team)	6.0
COMM 52C	Forensics 3 (SRJC Speech Team)	6.0
COMM 52D	Forensics 4 (SRJC Speech Team)	6.0
MEDIA 4	Introduction to Mass Communication	3.0

COMMUNICATION STUDIES: LIST C - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

COMM 2	Spoken Word	3.0
COMM 3	Introduction to Argumentation	3.0
COMM 5	Group Discussion and Problem Solving	3.0
COMM 6	Interpersonal Communication	3.0
COMM 7	Intercultural Communication	3.0
COMM 9	Critical Thinking and Argumentation	3.0
COMM 10	Introduction to Communication Studies	3.0
COMM 52A	Forensics 1 (SRJC Speech Team)	6.0
COMM 52B	Forensics 2 (SRJC Speech Team)	6.0
COMM 52C	Forensics 3 (SRJC Speech Team)	6.0
COMM 52D	Forensics 4 (SRJC Speech Team)	6.0
COMM 98	Independent Study in Communication Studies	3.0
JOUR 1	Introduction to Journalism	3.0
JOUR 2	News Gathering and News Writing	3.0
MEDIA 4	Introduction to Mass Communication	3.0

PROGRAM REQUIREMENTS NOTES:

A course used to satisfy a requirement in one category cannot be used to fulfill the requirements in another category.

COMPUTER SCIENCE (AS)

Program of Study Code: 002023

Term Effective: Fall 2019

34.00 Units

(707) 527-4282

dharden@santarosa.edu (mailto:dharden@santarosa.edu)

PROGRAM REQUIREMENTS:

The Computer Science major will allow students whose planned transfer major is Computer Science to earn an Associate Degree while meeting the typical lower division requirements for a Computer Science degree at a four-year institution.

PROGRAM STUDENT LEARNING OUTCOMES

1. Successfully pursue a bachelor's degree in computer science at a four-year institution;
2. apply the basic and intermediate problem solving and programming skills and tools necessary to succeed in upper division computer science courses; and
3. apply the mathematical tools necessary to succeed in upper division computer science courses.

COMPUTER SCIENCE MAJOR CORE REQUIREMENTS - COMPLETE 34.0 UNITS

CS 10A	Introduction to Programming Concepts and Methodologies	4.0
CS 10B	Programming Concepts and Methodologies 1	4.0
CS 10C	Programming Concepts and Methodologies 2	4.0
CS 12	Assembly Language Programming/Computer Architecture	4.0
MATH 1A	Calculus, First Course	5.0
MATH 1B	Calculus, Second Course	5.0
MATH 4	Discrete Mathematics	4.0

Complete any combination totaling at least 4.0 units from the following:

PHYS 40	Classical Mechanics for Scientists and Engineers	5.0
PHYS 41	Waves, Optics and Thermodynamics for Scientists & Engineers	4.0
PHYS 42	Electricity and Magnetism for Scientists and Engineers	4.0

CULINARY ARTS (AA)

Program of Study Code: 001010

Term Effective: Fall 2019

44.00 Units

(707) 521-7930

cburgett@santarosa.edu (mailto:cburgett@santarosa.edu)

PROGRAM REQUIREMENTS:

The Culinary Arts major is designed to train individuals in all aspects of the culinary arts field. Successful students will be prepared to work as cooks in a wide range of food service settings, such as restaurants, hotels, catering operations, and institutional kitchens.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate station organization, purchasing, storage, menu writing, and sanitation principles as they apply to food handling;
2. use classic cooking terminology and methods, apply health and safety standards;
3. demonstrate skill and apply professional industry standards in food handling, beverage service, baking and food service, and use of hand tools;
4. demonstrate responsibility and team skills for the food service industry;
5. describe career opportunities within the food industry and strategize own career;
6. critique, assess and improve one's own performance, listening skills and communication skills for personal, academic, and career purposes;
7. recognize the diversity of cultural influences and values related to a professional culinary environment; and
8. think critically in evaluating information, solving problems, and making decisions related to food preparation and food service.

CULINARY ARTS MAJOR REQUIREMENTS - COMPLETE 42.0 UNITS

CUL 250	Sanitation and Safety	1.0
CUL 250.1	Culinary Arts Survey	1.0
CUL 250.2	Careers in the Food and Beverage Industry	1.0
CUL 250.3	Professional Plate Presentation	1.0
CUL 252.3	Knife Skills	2.0
CUL 252.14	Fundamentals of Garde Manger	1.5
CUL 253A	Culinary Cafe 1	6.0
CUL 253B	Culinary Cafe 2	6.0
CUL 253.6	Professional Cooking Basics	3.0
CUL 253.7	Professional Meat and Sauce Preparation	1.5
CUL 254	Introduction to Baking & Pastry	4.0
CUL 255	Production Baking	5.0
CUL 256	Front House Operations	4.5

Complete any combination totaling at least 4.5 units from the following:

CUL 254.4	Purchasing and Bakeshop Management	1.0
CUL 255.1	Specialty Production Baking	4.0
CUL 256.3	Introduction to Food and Beverage Operations	1.0
CUL 256.5	Wine Appreciation	1.5
CUL 256.8	Beverage Management	1.0
CUL 256.9	Introduction to Wine in the Restaurant	1.0
CUL 256.10	Restaurant Operations	3.0
CUL 256.11	Wine and Food Pairing	1.5
DIET 52	Management Training Techniques	3.0
DIET 55	Food Production Management	2.0
DIET 55L	Food Production Clinical Experience	2.0
DIET 57	Modified Diets	3.0

FDNT 10	Elementary Nutrition	3.0
HOSP 50	Introduction to Tourism in Sonoma County	1.0
SUSAG 50	Introduction to Sustainable Agriculture	3.0
SUSAG 120	Organic Gardening and Food Production	2.0
WINE 1	World Viticulture and Wine Styles	3.0

CULINARY ARTS MAJOR ELECTIVE REQUIREMENTS - COMPLETE 1.0 UNIT

Complete any combination totaling at least 1.0 unit from the following:

CUL 222	A Culinary Tour of Sonoma County	1.5
CUL 270.30	Sonoma Wine Country Cuisine	0.5
CUL 275.1	French Cuisine: Provence	1.0
CUL 275.2	French Cuisine: Paris	1.0
CUL 275.3	French Cuisine: Burgundy	1.0
CUL 275.10	American Regional: Cajun and Creole Cuisine	1.0
CUL 275.11	American Regional: Southern Cuisine	1.0
CUL 275.12	American Regional: Hawaiian Cuisine	1.0
CUL 275.15	Japanese Cuisine: Tokyo	1.0
CUL 275.16	Japanese Cuisine: Osaka	1.0
CUL 275.17	Japanese Cuisine: Street Food	1.0
CUL 275.31	Pekinese Cuisine	2.0
CUL 275.32	Shanghainese Cuisine	2.0
CUL 275.33	Hunanese Cuisine	2.0
CUL 275.34	Cantonese Cuisine	2.0
CUL 275.48	Indian Cuisine	2.0
CUL 275.49	Malaysian Cuisine	2.0
CUL 275.64	Greek Cuisine	2.0
CUL 275.65	Spanish Cuisine	2.0
CUL 275.66	Mexican Cuisine: Oaxacan	1.0
CUL 275.67	Mexican Cuisine: Yucatan	1.0
CUL 275.68	Mexican Cuisine: Veracruz	1.0
CUL 275.80	Northwestern Italian Cuisines	1.0
CUL 275.81	Northern Italian Cuisines	1.0
CUL 275.82	Northeastern Italian Cuisines	1.0
CUL 275.83	Southern Italian Cuisines	1.0
CUL 275.84	Eastern Central Italian Cuisine	2.0
CUL 275.85	Western Central Italian Cuisine	2.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

The degree will be granted upon completion of the required courses with a grade of "C" or better.

CULINARY ARTS: RESTAURANT MANAGEMENT (AA)

Program of Study Code: 001042

Term Effective: Fall 2019

20.50 Units

(707) 524-1758

bfischer@santarosa.edu (mailto:bfischer@santarosa.edu)

PROGRAM REQUIREMENTS:

The Culinary Arts: Restaurant Management Degree program is designed to train individuals in all aspects of restaurant management. Successful students will be prepared to work in a variety of managerial roles in restaurants, hotels, catering companies and other similar food service businesses.

PROGRAM STUDENT LEARNING OUTCOMES

1. Employ proper restaurant operations procedures to ensure compliance with safety and sanitation regulations;
2. use basic math skills to accomplish cash management, labor, and food and beverage costing;
3. develop employee professionalism in a restaurant setting;
4. implement industry-standard human resource practices conforming to federal and state wage and labor laws;
5. employ industry standards relating to service, sales, and alcoholic beverage service;
6. apply human resource principles to manage a restaurant staff;
7. employ the diversity of cultural influences and values related to a professional culinary environment; and
8. exercise critical thinking in evaluating information, solving problems, and making decisions related to food preparation and food service.

CULINARY ARTS: RESTAURANT MANAGEMENT REQUIREMENTS - COMPLETE 19.5 UNITS

CUL 250	Sanitation and Safety	1.0
CUL 250.1	Culinary Arts Survey	1.0
CUL 250.2	Careers in the Food and Beverage Industry	1.0
CUL 256	Front House Operations	4.5
CUL 256.5	Wine Appreciation	1.5
CUL 256.8	Beverage Management	1.0

CUL 256.9	Introduction to Wine in the Restaurant	1.0
CUL 256.10	Restaurant Operations	3.0
CUL 256.11	Wine and Food Pairing	1.5

Complete any combination totaling at least 4.0 units from the following:

BGN 81	Practical Business Math Skills	3.0
BMG 61	Skills for Managers	1.5
CUL 99I	Culinary Arts Occupational Work Experience Internship	8.0
CUL 256.3	Introduction to Food and Beverage Operations	1.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

If CUL 99I is selected as an elective, it should be completed for 1 unit.

DANCE (AA)

Program of Study Code: 001009

Term Effective: Fall 2019

24.00 Units

(707) 527-4260

chillman@santarosa.edu (mailto:chillman@santarosa.edu)

PROGRAM REQUIREMENTS:

The Dance major leads to an Associate in Arts in Dance and provides the student with a solid foundation in ballet, modern and jazz dance as well as the opportunity to explore other areas of interest. The Dance major will prepare a student for transfer or for careers in dance.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate proficiency in modern, jazz, and ballet dance forms, in both the performance and production aspects of dance;
2. display the skills and techniques necessary for employment as instructors, choreographers, and/or performers;
3. apply the craft and aesthetic qualities of dance orally, practically, and in writing; and
4. apply the skills and knowledge of dance in advanced courses in order to transfer to four year institutions.

DANCE MAJOR REQUIREMENTS - COMPLETE 24.0 UNITS

DANCE 2	Survey of Dance History	3.0

DANCE 3.1	Choreography I	2.0

Complete any combination totaling at least 15.0 units from the following:

DANCE 11.1	Ballet I	1.5
DANCE 11.2	Ballet II	1.5
DANCE 11.3	Ballet III	1.5
DANCE 11.4	Ballet IV	1.5
DANCE 11.5	Ballet V	1.5
DANCE 11.6	Ballet VI	1.5
DANCE 13.1	Jazz Dance I	1.5
DANCE 13.2	Jazz Dance II	1.5
DANCE 13.3	Jazz Dance III	1.5
DANCE 13.4	Jazz Dance IV	1.5
DANCE 13.5	Jazz Dance V	1.5
DANCE 13.6	Jazz Dance VI	1.5
DANCE 16.1	Modern Dance I	1.5
DANCE 16.2	Modern Dance II	1.5
DANCE 16.3	Modern Dance III	1.5
DANCE 16.4	Modern Dance IV	1.5
DANCE 16.5	Modern Dance V	1.5
DANCE 16.6	Modern Dance VI	1.5

Complete any combination totaling at least 4.0 units from the following:

DANCE 14.2	Lyrical Dance II	1.5
DANCE 14.3	Lyrical Dance III	1.5
DANCE 14.4	Lyrical Dance IV	1.5
DANCE 21.1	Hip Hop/Funk I	1.5
DANCE 21.2	Hip Hop/Funk II	1.5
DANCE 21.3	Hip Hop/Funk III	1.5
DANCE 21.4	Hip Hop/Funk IV	1.5
DANCE 21.5	Hip Hop/Funk V	1.5
DANCE 21.6	Hip Hop/Funk VI	1.5
DANCE 27	Dance Production: Experience	2.0
DANCE 28	Choreography for Performance	2.0
DANCE 29	Dance Performance and Touring Company	2.0
DANCE 72	Dance Repertory	1.5
DANCE 88.1	Latin Dance I	1.0
DANCE 88.2	Latin Dance II	1.0
DANCE 88.3	Latin Dance III	1.0
DANCE 88.4	Latin Dance IV	1.0
DANCE 150	Teaching Dance Techniques	1.0
KFIT 50	Teaching Aide	2.0

NOTES:

1. There will be an orientation meeting during the first week of school. Please check with the department for place and time.

2. It is HIGHLY recommended to take the courses in the sequence suggested; i.e., take Level I first semester (all dance forms), then Level II the second semester, etc.

The courses below are only offered during the indicated semester:
Dance 28 - Spring
Dance 29 - Fall
The necessary higher level Dance technique classes (levels III and IV) need to be taken prior to the expiration of the 4 semester limit. (repeat code 22)

DENTAL HYGIENE (AS)

Program of Study Code: 002012

Term Effective: Fall 2019

101.00 Units

(707) 527-4583

chatrick@santarosa.edu (mailto:chatrick@santarosa.edu)

PROGRAM REQUIREMENTS:

The Dental Hygiene Associate Degree program at Santa Rosa Junior College is accredited by the Commission on Dental Accreditation of the American Dental Association. Students receive a comprehensive education in the health sciences and in clinical dental hygiene and are prepared for entry into the practice of dental hygiene.

PROGRAM STUDENT LEARNING OUTCOMES

1. Discern and manage the ethical issues of dental hygiene practice in a rapidly changing health environment;
2. advance the profession through active participation and affiliation with professional and community service, and display lifelong professional growth and development;
3. initiate and assume responsibility for health promotion and disease prevention activities for diverse populations;
4. formulate comprehensive dental hygiene care plans that are patient centered and based on current scientific evidence;
5. provide treatment that includes preventive and therapeutic procedures to promote and maintain oral health and assist the patient in achieving oral health goals; and
6. evaluate the effectiveness of patient treatment, patient education, planned clinical and community educational services and make necessary modifications.

PROGRAM SELECTION PROCESS:

Please contact the Dental Hygiene coordinator in the Health Science department for information.

DENTAL HYGIENE PREREQUISITES - COMPLETE 32.0 UNITS

ANAT 1	General Human Anatomy	5.0
ENGL 1A	Reading & Composition	4.0
PHYSIO 1	Human Physiology	5.0

Complete any combination totaling at least 3.0 units from the following:

MATH 101	Mathematics for the Associate Degree	3.0
MATH 154	Elementary and Intermediate Algebra For Business and STEM	8.0
MATH 155	Intermediate Algebra	4.0
MATH 156	Intermediate Algebra for Business and STEM Majors	5.0
MATH 161	Mathematics Preparation for Statistics and Liberal Arts	4.0

Complete any combination totaling at least 5.0 units from the following:

CHEM 60	General, Organic and Biological Chemistry	5.0
CHEM 1A	General Chemistry	5.0

And

CHEM 8	Introductory Organic Chemistry	5.0

Complete any combination totaling at least 4.0 units from the following:

MICRO 5	General Microbiology	5.0
MICRO 60	Fundamentals of Microbiology	4.0

Complete any combination totaling at least 3.0 units from the following:

FDNT 10	Elementary Nutrition	3.0
FDNT 62	Nutrition and Diet Therapy	3.0

Complete any combination totaling at least 3.0 units from the following:

COMM 3	Introduction to Argumentation	3.0
COMM 9	Critical Thinking and Argumentation	3.0
ENGL 5	Advanced Composition and Critical Thinking	3.0
PHIL 3	Critical Thinking	3.0
PHIL 5	Critical Thinking/Writing	3.0

COMMISSION ON DENTAL ACCREDITATION OF THE AMERICAN DENTAL ASSOC. REQUIREMENTS - COMPLETE 9.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

COMM 1	Introduction to Public Speaking	3.0
COMM 5	Group Discussion and Problem Solving	3.0
COMM 6	Interpersonal Communication	3.0
COMM 60	Communication Skills	3.0

Complete any combination totaling at least 3.0 units from the following:

PSYCH 1A	General Psychology	3.0
PSYCH 4	Child and Adolescent Psychology	3.0

Complete any combination totaling at least 3.0 units from the following:

SOC 1	Introduction to Sociology	3.0

SOC 2	Modern Social Problems	3.0
SOC 10	Marriage & the Family	3.0
SOC 30	Race & Ethnic Relations	3.0

DENTAL HYGIENE CORE REQUIREMENTS - COMPLETE 60.0 UNITS

DE 50	Introduction to the Dental Profession	2.0
DE 51	Occupational Health & Safety	2.0
DE 55A	Introduction to Dental Radiology 1	2.0
DE 55B	Dental Radiology 2	2.0
DH 68	Dental Hygiene-Electronic Patient Records	0.5
DH 69	Medical Emergencies in Dental Practice	1.0
DH 70	Dental Anatomy and Tooth Morphology	2.5
DH 71A	Clinical Dental Hygiene Care and Theory 1	5.0
DH 71B	Clinical Dental Hygiene Care and Theory 2	5.0
DH 71C	Clinical Dental Hygiene Care and Theory 3	2.0
DH 71D	Clinical Dental Hygiene Care and Theory 4	7.0
DH 71E	Clinical Dental Hygiene Care and Theory 5	7.0
DH 72	Oral Health Education	2.0
DH 74	Head and Neck Anatomy, Histology and Embryology	3.0
DH 75	Pharmacology for the Dental Hygienist	2.0
DH 76	Dental Materials for the Dental Hygienist	2.0
DH 78	Local Anesthesia/Nitrous Oxide Conscious Sedation	1.0
DH 79	Periodontics for the Dental Hygienist	2.0
DH 80	Oral Pathology for the Dental Hygienist	2.0
DH 81	Community Dental Health	2.0
DH 83	Ethics, Jurisprudence & Practice Mgmt for Dental Hygienist	2.0
DH 85	Advanced Periodontal Dental Hygiene Care	2.0
DH 86		

	Integration of Dental Hygiene and Dentistry	2.0

PROGRAM REQUIREMENTS NOTES:

All Dental Hygiene major prerequisites must be completed prior to entering the Dental Hygiene program

NOTES:

All courses taken in conjunction with this program must be completed with a letter grade of 'C' or better.

DIESEL EQUIPMENT TECHNOLOGY (AS)

Program of Study Code: 002019

Term Effective: Fall 2019

48.00 Units

(707) 522-2601

bgully@santarosa.edu (mailto:bgully@santarosa.edu)

PROGRAM REQUIREMENTS:

The Diesel Equipment Technology major offers both theoretical and hands-on training related to diesel equipment including diesel engines, drive trains, fuel, electrical, hydraulic, brake and suspension systems.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate safe operation of hand tools, power tools and specialized diesel tools and equipment;
2. identify major truck, construction and agricultural equipment components;
3. diagnose major component failures and recommend repairs;
4. perform typical major component repairs; and
5. access and interpret Diesel service information and schematics both manually and on the computer.

DIESEL EQUIPMENT TECHNOLOGY REQUIREMENTS - COMPLETE 47.0 UNITS

AUTO 120	Automotive Service Advisor, Business Ethics, and Management	3.0
AUTO 126	Mobile Heating and Air Conditioning Systems	2.5
AUTO 156	Automotive Electrical System	5.0
DET 179	Diesel Shop Practices	3.0
DET 181	Preventive Maintenance and Inspection	3.0
DET 182A	Diesel Engine Overhaul	3.0
DET 182B	Diesel Engine Fuel Systems	3.0
DET 184	Mobile Hydraulics	3.0

DET 185	Heavy Duty Chassis and Undercarriage Systems	3.0
DET 188	Heavy-Duty Power Train	3.0
DET 189	Heavy Duty Equipment Electrical Systems	3.0
IED 190	Industrial Mathematics	1.5
MACH 51A	Beginning Machine Tool Technology	2.0
WELD 170	Beginning Welding: Fundamentals of Arc and Gas Welding	2.0

Complete any combination totaling at least 7.0 units from the following:

AUTO 151	Automotive Engines	7.0
AUTO 153	Automotive Engine Performance and Pollution Control	7.0
AUTO 154	Automotive Brakes, Steering, and Suspension	7.0
AUTO 155	Automotive Drive Train	6.0
AUTO 194	Introduction to Hybrid Vehicle Maintenance and Repair	4.0
DET 156	California Commercial Truck Driving License Preparation	2.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

DET 179 and DET 181 are beginning courses, one of which should be taken prior to or concurrently with other DET core classes.

DIETETIC TECHNICIAN (AS)

Program of Study Code: 002049

Term Effective: Fall 2018

46.00 Units

(707) 521-6921

jharrison@santarosa.edu (mailto:jharrison@santarosa.edu)

PROGRAM REQUIREMENTS:

The Dietetic Technician Major prepares individuals to manage an efficient, safe and healthful food service or to work in health promotion in the community. Students acquire skills for supervising both food production and personnel in health care and other food service institutions; for assisting individuals in the selection of food; and for assisting dietitians with nutrition screening and education. Courses include both classroom instruction and supervised field experience in community nutrition and local food service establishments. The Dietetic Technician major courses meet the minimal requirement of the California Department of Health Services for managing the food service department in a health care facility. Some required courses have strictly enforced prerequisites.

PROGRAM STUDENT LEARNING OUTCOMES

1. Take and pass the Commission on Dietetic Registration (CDR) Exam for Dietetic Technicians, Registered (DTR) or be prepared to continue education in nutrition, dietetics, or foodservice at a higher level;
2. communicate clearly and professionally as a Dietetic Technician, Registered, in written and verbal formats;
3. apply basic knowledge of nutrition and physiology in assisting individuals with health promotion and disease prevention;
4. prepare nutritional care plans for and provide counseling to clients from diverse cultural and social backgrounds at various stages in the lifecycle;
5. manage cost control, purchasing, inventory, meal production, employee scheduling and supervision of foodservice workers for safe and sanitary commercial food production;
6. use leadership skills to motivate employees to work as a team in an efficient and effective manner that meets or exceeds client expectations; and
7. exhibit professional behaviors in all aspects of work as competent DTRs.

DIETETIC TECHNICIAN REQUIREMENTS - COMPLETE 45.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ANTHRO 2	Cultural Anthropology	3.0
ANTHRO 30	Anthropology of Globalization	3.0
DIET 50	Sanitation & Safety	2.0
DIET 52	Management Training Techniques	3.0
DIET 55	Food Production Management	2.0
DIET 55L	Food Production Clinical Experience	2.0
DIET 57	Modified Diets	3.0
DIET 106.1	Supervised Field Experience for Dietetic Technician 1	4.5
DIET 106.2	Supervised Field Experience for Dietetic Technician 2	4.5
DIET 176	Applied Nutrition Therapy	2.0
DIET 191	Counseling and Group Facilitation Skills in Healthcare	3.0
FDNT 10	Elementary Nutrition	3.0
FDNT 75	Principles of Food	3.0

Complete any combination totaling at least 3.0 units from the following:

PHYSIO 58	Introduction to Human Physiology	3.0
PHYSIO 1	Human Physiology	5.0

PSYCH 1A	General Psychology	3.0

Complete any combination totaling at least 1.0 unit from the following:

DIET 70	Introduction to Nutrition, Dietetics and Food Service	1.0
FDNT 70	Introduction to Nutrition, Dietetics and Food Service	1.0

Complete any combination totaling at least 3.0 units from the following:

COMM 6	Interpersonal Communication	3.0
COMM 60	Communication Skills	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

The orientation course for this program is DIET 70 or FDNT 70: Introduction to Nutrition, Dietetics and Food Service

Recommended electives: FDNT 60 Nutrition & Physical Fitness and FDNT 112 Sustainable Food Choices

All courses taken in conjunction with this program must be completed with a letter grade of 'C' or better.

Students will complete a portfolio demonstrating competency in entry level Dietetic Technician skills as part of their Supervised Field Experience classes, DIET 106.1 and 106.2.

DIGITAL MEDIA: 3D MODELING AND ANIMATION (AS)

Program of Study Code: 002055

Term Effective: Fall 2019

29.00 Units

(707) 527-4603

gpasqualetti@santarosa.edu (mailto:gpasqualetti@santarosa.edu)

PROGRAM REQUIREMENTS:

The Digital Media: 3D Modeling and Animation major provides fundamental skills for entry into a wide range of industries, including entertainment, architecture, electronic gaming, advertising, and educational media, as well as forensics and medical animation, and 3D simulations. This program also prepares students for advanced animation education through degree granting institutions and schools specializing in the film and broadcast fields. Students will explore the principles of three-dimensional (3D) modeling, texturing, lighting and animating, as well as the application of particle systems and dynamics to produce a range of effects. Emphasis is placed on modeling, rigging

and animating 3D characters, and upon creating sophisticated 3D scenes. Upon completion, students will have a comprehensive understanding of the basic practices of designing, building and animating 3D environments, characters, and visual effects.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply the basic practices of designing, building, and animating 3D environments, characters, and visual effects; and
2. Produce 3D animations consistent with industry requirements for entry level animators.

DIGITAL MEDIA: 3D MODELING & ANIMATION CORE REQUIREMENTS - COMPLETE 28.0 UNITS

APTECH 43	Computer Modeling and Animation with 3D Studio Max	3.0
APTECH 162	3D Animation: Visual Effects and Compositing	2.0
APTECH 63	3D Animation: Modeling and Rigging	4.0
APTECH 64	3D Animation: Character Animation	4.0
APTECH 65	Advanced 3D Animation Workshop	4.0
APTECH 168	3D Animation: Introduction to Virtual Reality	2.0
ART 7A	Drawing and Composition 1	3.0
CS 74.11	Introduction to Digital Media	3.0

Complete any combination totaling at least 3.0 units from the following:

APTECH 46	Introduction to Computer-Aided Drafting	2.0
ART 5	Three Dimensional Design	3.0
ART 69	Introduction to Cartooning and Sequential Art	3.0
CS 70.11A	Adobe Photoshop 1	3.0
CS 74.21A	Digital Video Post-Production Techniques 1	1.5
CS 74.21B	Digital Video Post-Production Techniques 2	1.5
CS 74.41	Game Design	4.0
CS 74.42	Introduction to Game Coding	4.0
CS 78.1	3D Printing	3.0
MEDIA 20	Introduction to Digital Filmmaking	4.0
MEDIA 22	Screenwriting	3.0
THAR 10A	Introduction to Acting	3.0
THAR 10B	Scene Study and Characterization	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

DIGITAL MEDIA: AUDIO (AA)

Program of Study Code: 001047

Term Effective: Fall 2016

26.00 Units

(707) 527-4790

rbudginas@santarosa.edu (mailto:rbudginas@santarosa.edu)

PROGRAM REQUIREMENTS:

The purpose of the Digital Media: Audio program, (formerly Audio Production for Digital Media), is to provide students with an overview of MIDI sequencing, sound synthesis, audio recording, digital and analog audio technology, basic music theory, sound design for multimedia applications including video games (for educational and/or entertainment purposes), and delivery of audio content over radio, television, and the Internet. Graduates are prepared for entry-level positions in professional audio production including audio engineering, sound design, audio-for-video post-production, broadcasting, and CD/DVD mastering.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate technical proficiency with a Digital Audio Workstation (DAW);
2. create digtial audio recordings and master them for distribution; and
3. design audio for video, computer games, and other multimedia applications.

DIGITAL MEDIA: AUDIO REQUIREMENTS - COMPLETE 25.0 UNITS

CS 74.11	Introduction to Digital Media	3.0
MUSC 50	Introduction to MIDI	3.0
MUSC 51A	Digital Audio: Fundamentals	3.0
MUSC 51B	Digital Audio: Multimedia	3.0
MUSC 60A	Audio Recording 1	3.0
MUSC 60B	Audio Recording 2	3.0
CS 50.32	Web / Interactive Media Projects	4.0

Complete any combination totaling at least 3.0 units from the following:

MUSC 1	Music Fundamentals	3.0
MUSC 2A	Introduction to Music Theory	3.0
MUSCP 11A	Class Piano 1	2.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

DIGITAL MEDIA: DIGITAL FILMMAKING (AS)

Program of Study Code: 002056

Term Effective: Fall 2019

32.00 Units

(707) 522-2709

bantonson@santarosa.edu (mailto:bantonson@santarosa.edu)

PROGRAM REQUIREMENTS:

The Digital Filmmaking major is designed to provide students with a foundation in film history and film form as well as in field production and postproduction techniques for digital filmmaking. The program will prepare students for broadcast and commercials, digital photography, documentary/biography production, legal and forensic video production, duplication and transfer, DVD authoring/mastering, videos for websites, online advertisements, public service announcements, industrial and corporate training videos, live internet streaming, live seminar capture, music videos, post production/editing, sports/performance events, media tech work on live events (including video production troubleshooting), and we video production/encoding.

PROGRAM STUDENT LEARNING OUTCOMES

1. Produce a professional quality video project using industry standard non-linear editing software and audio editing software; and
2. use DVD authoring software to create a project with multiple menus and special features for playback on the Web or DVD.

DIGITAL MEDIA: DIGITAL FILMMAKING CORE REQUIREMENTS - COMPLETE 31.0 UNITS

CS 50.32	Web / Interactive Media Projects	4.0
CS 74.11	Introduction to Digital Media	3.0
CS 74.21A	Digital Video Post Production Techniques 1	1.5
CS 74.21B	Digital Video Post Production Techniques 2	1.5
JOUR 55	Multimedia Reporting	3.0
MEDIA 10	Film Appreciation	4.0
MEDIA 19	Multi-Camera Studio Production	4.0
MEDIA 20	Introduction to Digital Filmmaking	4.0

Complete any combination totaling at least 6.0 units from the following:

APTECH 63	3D Animation: Modeling and Rigging	4.0
APTECH 64	3D Animation: Visual Effects, Character Anim. & Compositing	4.0
ART 82	Beginning Digital Photography	3.0

CS 70.11B	Adobe Photoshop 2	3.0
CS 74.21C	Digital Video Post-Production Techniques 3	3.0
MEDIA 21	Intermediate Digital Filmmaking	4.0
MEDIA 22	Screenwriting	3.0
MEDIA 123	Intermediate Screenwriting	3.0
THAR 63	Acting in Film, Television and Voice-over	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

DIGITAL MEDIA: GAME DEVELOPMENT (AS)

Program of Study Code: 002054

Term Effective: Fall 2019

25.00 Units

(707) 527-4370

mstarkey@santarosa.edu (mailto:mstarkey@santarosa.edu)

PROGRAM REQUIREMENTS:

The Game Development major provides a course of study that prepares students to transfer to a four-year degree program focusing on the design and programming of interactive computer games and leading to a career in the game development industry. The Game Development major focuses on computer programming, mathematics, and game design and programming.

PROGRAM STUDENT LEARNING OUTCOMES

1. Work as an effective member of a game development team;
2. use principles of software design to analyze programming problems and develop solutions;
3. create and test computer programs that incorporate complex data structures and algorithms, and object oriented programming methods; and
4. produce an online, multi-level game with consistency throughout the levels and a compelling story.

DIGITAL MEDIA: GAME PROGRAMMING CORE REQUIREMENTS - COMPLETE 24.0 UNITS

CS 74.40	History of Games	3.0
CS 74.41	Game Design	4.0
CS 74.42	Introduction to Game Coding	4.0
GD 90	Designing the User Experience	3.0

Complete any combination totaling at least 10.0 units from the following:

APTECH 43	Computer Modeling and Animation with 3D Studio Max	3.0
CS 10A	Introduction to Programming Concepts and Methodologies	4.0
CS 10B	Programming Concepts and Methodologies 1	4.0
CS 17.11	Java Programming	3.0
CS 50A	Web Development 1	3.0
CS 74.11	Introduction to Digital Media	3.0
GD 51	Introduction to Graphic Design	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

DIGITAL MEDIA: WEB AND MULTIMEDIA (AA)

Program of Study Code: 001040

Term Effective: Fall 2019

20.00 Units

(707) 527-4990

jdiamond@santarosa.edu (mailto:jdiamond@santarosa.edu)

PROGRAM REQUIREMENTS:

The Digital Media: Web and Multimedia major provides students with the knowledge and skills to generate and manipulate graphics, animations, sound, text and video into consolidated and seamless website and multimedia presentations.

PROGRAM STUDENT LEARNING OUTCOMES

1. Complete professional projects, products, and other assignments in applications using industry-standard web and multimedia applications.
2. Demonstrate analytical, critical thinking and decision-making skills as they apply to web and multimedia design.
3. Understand, apply, and integrate knowledge of the principles and standards of web and digital media design and demonstrate this in professional projects and assignments that rely on best design practices, software, programming and markup language expertise.

WEB DEVELOPMENT CORE REQUIREMENTS - COMPLETE 9.0 UNITS

CS 50A	Web Development 1	3.0
CS 50B	Web Development 2	3.0
CS 50C	Web Development 3	3.0

WEB AND MULTIMEDIA EMPHASIS REQUIREMENTS - COMPLETE 10.0 UNITS

CS 50.32	Web and Digital Media Projects	4.0
CS 70.11A	Adobe Photoshop 1	3.0

Complete any combination totaling at least 3.0 units from the following:

CS 74.11	Introduction to Digital Media	3.0
CS 74.21A	Digital Video Post-Production Techniques 1	1.5
CS 74.21B	Digital Video Post-Production Techniques 2	1.5

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

EARLY CHILDHOOD EDUCATION (AS-T)

Program of Study Code: 002063

Term Effective: Fall 2017

27.00 Units

(707) 527-4315

ygarcia2@santarosa.edu (mailto:ygarcia2@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Science for Transfer in Early Childhood Education degree provides the foundational courses for transfer into upper division programs in Child Development, Human Development, Early Childhood Education, Early Childhood Studies, Child and Adolescent Development. It is based on the work of the Early Childhood Curriculum Alignment Project and therefore it has a curriculum and student learning outcomes similar to other aligned colleges. It fulfills the transfer model curriculum for many CSU campuses. The degree consists of evidence-based courses that are intended to become a foundational core for all early care and education professionals. Students will receive a comprehensive survey of the field of early childhood education including the growth and development of young children, the role of community and society in that development and the fundamentals of being an early childhood educator in a variety of settings. The Early Childhood Education Associate in Science for Transfer degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree. 1. Completion of 60 semester units that are eligible for transfer to the California State University, including both of

the following: * The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth requirements; and * A minimum of 27 semester units as required for the Associate in Science in Early Childhood Education for Transfer major. 2. Obtainment of an overall minimum grade point average of 2.0. 3. Earn a grade of C or better in all courses required for the Associate in Science in Early Childhood Education for Transfer major.

PROGRAM STUDENT LEARNING OUTCOMES

1. Integrate an understanding of the potential, the characteristics, and the multiple influences on the development of children into the delivery of high quality care and programs;
2. design, implement and evaluate play based environments and activities that support developmental appropriate learning outcomes for all young children;
3. apply effective guidance and interaction strategies that support all children's social learning, identity and self-esteem;
4. develop strategies that promote relationships between programs, teachers, families, and their communities; and
5. demonstrate ethical standards and professional behaviors that reflect understanding, knowledge, and a commitment to the field of early childhood education and care.

EARLY CHILDHOOD EDUCATION FOR TRANSFER REQUIREMENTS - COMPLETE 27.0 UNITS

CHLD 10	Child Growth and Development	3.0
CHLD 51	Principles and Practices of Early Childhood Education	3.0
CHLD 66	Early Childhood Care and Education Practicum	6.0
CHLD 68	Working With Children and Families in a Diverse Society	3.0
CHLD 90.1	Child, Family, Community Interrelationships	3.0
CHLD 90.2	Observation and Assessment of Young Children	3.0
CHLD 90.3	Health, Safety and Nutrition for the Young Child	3.0
CHLD 90.4	Introduction to Curriculum	3.0

ECONOMICS (AA-T)

Program of Study Code: 001069

Term Effective: Fall 2018

26.00 Units

(707) 524-1812

adonegan@santarosa.edu (mailto:adonegan@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Arts for Transfer in Economics will prepare and guide students seeking a bachelor's degree in Economics and will fulfill the lower division requirements for that degree at a CSU. The Associate in Arts for Transfer in Economics is designed to provide a clear transfer pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree. (1) Complete 60 semester units that are eligible for transfer to the California State University, including both of the following: -(A) The Inter-segmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth requirements; and -(B) A minimum of 26-28 semester units as required for the Associate in Arts for Transfer in Economics major. (2) Obtain an overall minimum grade point average of 2.0 (3) Earn a grade of C or better in all courses required for the Associate in Arts for Transfer in Economics major.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply economic theories and economic reasoning to real life situations using the concepts of scarcity, marginal analysis, opportunity cost for individual and collective decision-making;
2. use analytical techniques to measure economic conditions related to the individual, business firms, industries, and economic systems;
3. explain the role that households, business organizations, governments, and the international sector, play in free markets, command economics, and mixed economies; and
4. evaluate the objectives, limitations, and mechanics of regulation, taxation, tariffs, quotas, and monetary and fiscal policies.

ECONOMICS FOR TRANSFER CORE REQUIREMENTS - COMPLETE 20.0 UNITS

ECON 1	Principles of Macroeconomics	3.0
ECON 2	Principles of Microeconomics	3.0
MATH 1A	Calculus, First Course	5.0
MATH 1B	Calculus, Second Course	5.0
MATH 15	Elementary Statistics	4.0

ECONOMICS FOR TRANSFER LIST A REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

AGBUS 7	Agricultural Economics	3.0
BAD 1	Financial Accounting	4.0
BAD 2	Managerial Accounting	4.0
BAD 18	The Legal Environment of Business	3.0
CS 84.21	Management Information Systems	3.0
ENGL 5	Advanced Composition and Critical Thinking	3.0

MATH 9	Finite Mathematics	3.0
PHIL 5	Critical Thinking/Writing	3.0
SOC 1	Introduction to Sociology	3.0
COMM 3	Introduction to Argumentation	3.0
COMM 9	Critical Thinking and Argumentation	3.0

ECONOMICS FOR TRANSFER LIST B REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

AGBUS 7	Agricultural Economics	3.0
BAD 1	Financial Accounting	4.0
BAD 2	Managerial Accounting	4.0
BAD 18	The Legal Environment of Business	3.0
CS 84.21	Management Information Systems	3.0
ECON 12	Introduction to Economics and the Environment	3.0
ENGL 5	Advanced Composition and Critical Thinking	3.0
MATH 5	Introduction to Linear Algebra	3.0
MATH 9	Finite Mathematics	3.0
PHIL 5	Critical Thinking/Writing	3.0
SOC 1	Introduction to Sociology	3.0
SPCH 3A	Introduction to Argumentation	3.0
SPCH 9	Critical Thinking and Argumentation	3.0

NOTES:

NOTE: A course used to satisfy the List A requirement may not also be used to satisfy the List B requirement.

ENGINEERING (AS)

Program of Study Code: 002051

Term Effective: Fall 2018

37.00 Units

(707) 527-4359

vbertsch@santarosa.edu (mailto:vbertsch@santarosa.edu)

PROGRAM REQUIREMENTS:

The Engineering major is designed for students seeking to fulfill lower division preparation for junior level transfer to bachelor degree engineering programs at four-year colleges and universities. Students develop the analysis, teamwork, design, and communication skills necessary to succeed in their upper division work and as an engineer in industry.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply lower division level knowledge of math, science, and engineering to the formulation and solution of engineering problems;
2. show competence with modern engineering tools necessary for success in upper division engineering course work;
3. demonstrate a solid foundation of communication, teamwork, analysis, and design skills necessary for success in upper division work; and
4. develop a foundation for life-long learning in the evolving group of engineering disciplines that function within a framework of environmental, social, political, health and safety, economic and ethical concerns.

ENGINEERING REQUIREMENTS - COMPLETE 37.0 UNITS

MATH 1A	Calculus, First Course	5.0
MATH 1B	Calculus, Second Course	5.0
MATH 1C	Calculus, Third Course	4.0
MATH 2	Calculus, Fourth Course-Differential Equations	3.0
PHYS 40	Classical Mechanics for Scientists and Engineers	5.0
CHEM 1A	General Chemistry	5.0

Complete any combination totaling at least 6.0 units from the following:

ENGR 6	Programming in MATLAB for Engineers	3.0
ENGR 10	Introduction to the Engineering Profession	1.5
ENGR 16	Electric Circuits and Devices	4.0
ENGR 25	Engineering Graphics and Design	3.0
ENGR 34	Engineering Mechanics: Statics	3.0
ENGR 45	Properties of Materials	4.0
ENGR 101	Engineering Design Project	1.0
ENGR 102	Robotics Design Project	1.0
ENGR 103	Microcontroller Projects	1.0

Complete any combination totaling at least 4.0 units from the following:

PHYS 41	Waves, Optics and Thermodynamics for Scientists & Engineers	4.0
PHYS 42	Electricity and Magnetism for Scientists and Engineers	4.0

ENGLISH (AA-T)

Program of Study Code: 001061

Term Effective: Fall 2017

18.00 Units

(707) 527-4251

jchin@santarosa.edu (mailto:jchin@santarosa.edu)

PROGRAM REQUIREMENTS:

The English Associate in Arts for Transfer degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree. Completion of 60 semester units that include: 1. A minimum of 18 semester or 27 quarter units in the major as determined by the community college district , and 2. The California State University General Education-Breadth (CSU GE-Breadth) pattern of 39 units; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern of 37 units. 3. Obtainment of a minimum grade point average (GPA) of 2.0 and Earn a grade of C or better in all courses required for the major.

PROGRAM STUDENT LEARNING OUTCOMES

1. Critically read, analyze, and interpret diverse literary works;
2. Write clear, effective and original expository and argumentative essays on the college level;
3. Communicate their understanding and analysis of literature in both formal and informal discussion;
4. Show familiarity with the historic and cultural contexts of literatures in the United States, Great Britain, and other English speaking countries;
5. Analyze literature arising from any tradition and any cultural group;
6. Demonstrate sensitivity to cultural differences as they are expressed in literary works published not only in English, but in translation;
7. Apply a range of both historic and contemporary critical approaches to literature; and
8. Support critical arguments with sufficient research and appropriate secondary sources.

ENGLISH FOR TRANSFER CORE REQUIREMENTS - COMPLETE 6.0 UNITS

ENGL 1B	Literature and Composition	3.0
ENGL 5	Advanced Composition and Critical Thinking	3.0

ENGLISH FOR TRANSFER LIST A REQUIREMENTS - COMPLETE 6.0 UNITS

Complete any combination totaling at least 6.0 units from the following:

ENGL 30.1	American Literature: Pre-Colonial Period to the Civil War	3.0
ENGL 30.2	American Literature from 1865 to the Present	3.0
ENGL 46.1	Survey of English Literature Part 1	3.0
ENGL 46.2		

Survey of English Literature Part 2		3.0

ENGLISH FOR TRANSFER LIST B REQUIREMENT - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ENGL 2	Introduction to the Novel	3.0
ENGL 3	Introduction to Poetry	3.0
ENGL 4A	Beginning Creative Writing	3.0
ENGL 7	Introduction to the Short Story	3.0
ENGL 27	Introduction to Shakespeare	3.0

ENGLISH FOR TRANSFER LIST C REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ENGL 9	Contemporary World Literature	3.0
ENGL 10	Introduction to Literature and the Environment	3.0
ENGL 12	Children's Literature	3.0
ENGL 14	Dystopian Literature	3.0
ENGL 25	Introduction to Language Study	3.0
ENGL 31	African-American Literature	3.0
ENGL 33	Chicano/Chicana Arts and Literature	3.0
ENGL 36	Lesbian, Gay, Bisexual,Transgender Arts and Literature	3.0

ENVIRONMENTAL HORTICULTURE: LANDSCAPE CONSTRUCTION AND MAINTENANCE (AS)

Program of Study Code: 002029

Term Effective: Fall 2018

23.00 Units

(707) 527-4409

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Environmental Horticulture: Landscape Construction and Maintenance major program deals with all aspects of plant use in the landscape. This program provides an introductory base of plant knowledge and landscape skills, allowing students the option of entering a variety of jobs with the preparation for rapid advancement within their chosen occupations.

PROGRAM STUDENT LEARNING OUTCOMES

1. Create a materials takeoff for hardscape features;
2. develop the skills to perform landscape contractor construction skills;
3. demonstrate proper landscape plant maintenance practices;
4. develop proper water efficient practices in the landscape; and
5. assess plants for landscape purposes.

ENVIRONMENTAL HORTICULTURE: LANDSCAPE CONSTRUCTION AND MAINTENANCE REQUIREMENTS - COMPLETE 22.0 UNITS

HORT 8	Plant Materials: Summer/Fall	3.0
HORT 12	Plant Materials: Winter/Spring	3.0
HORT 51	Introduction to Horticulture	3.0
HORT 80	Landscape Practices	3.0
HORT 91	Landscape Construction/Estimation	3.0
HORT 144	Landscape Irrigation	3.0

Complete any combination totaling at least 1.0 unit from the following:

AGRI 98	Independent Study in Agriculture	3.0
AGRI 99I	Agriculture Occupational Work Experience Internship	8.0

Complete any combination totaling at least 3.0 units from the following:

AGBUS 2	Agricultural Computer Applications	3.0
AGBUS 56	Introduction to Agriculture Business and Management	3.0
AGBUS 61	Agricultural Marketing	3.0
AGBUS 62	Agricultural Sales and Communication	3.0
AGRI 60	Soil & Plant Nutrition	3.0
HORT 70	Plant Propagation	3.0
HORT 71	Nursery Production	3.0
HORT 93	Landscape Drafting and Design	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

Only one unit of AGRI 98 Independent Study or AGRI 99I Work Experience/Internship is required, but students may elect to take additional units.

The following courses are anticipated to be added as elective options: HORT 127 and HORT 133.

ENVIRONMENTAL HORTICULTURE: LANDSCAPE DESIGN (AS)

Program of Study Code: 002027

Term Effective: Fall 2018

26.00 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Environmental Horticulture: Garden Design major prepares students for occupations within the landscape industry that require garden design skills. The program emphasizes hands-on learning, and most courses incorporate lab activities that apply knowledge and skills in realistic settings.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply proper landscape principles to an appropriate site;
2. apply color media to the graphic presentation of a landscape plan; and
3. prepare perspective drawings of a design.

ENVIRONMENTAL HORTICULTURE: LANDSCAPE DESIGN - COMPLETE 25.0 UNITS

HORT 8	Plant Materials: Summer/Fall	3.0
HORT 12	Plant Materials: Winter/Spring	3.0
HORT 51	Introduction to Horticulture	3.0
HORT 91	Landscape Construction/Estimation	3.0
HORT 93	Landscape Drafting and Design	3.0
HORT 144	Landscape Irrigation	3.0
HORT 195	CAD: Landscape Site Plans	3.0

Complete any combination totaling at least 1.0 unit from the following:

AGRI 98	Independent Study in Agriculture	3.0
AGRI 99I	Agriculture Occupational Work Experience Internship	8.0

Complete any combination totaling at least 3.0 units from the following:

AGBUS 2	Agricultural Computer Applications	3.0
AGBUS 56	Introduction to Agriculture Business and Management	3.0
AGBUS 61	Agricultural Marketing	3.0
AGBUS 62	Agricultural Sales and Communication	3.0
HORT 70	Plant Propagation	3.0

HORT 71	Nursery Production	3.0
HORT 80	Landscape Practices	3.0
HORT 184	Introduction to Arboriculture	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

Only one unit of AGRI 98 Independent Study or AGRI 99I Work Experience/Internship is required, but students may elect to take additional units.

ENVIRONMENTAL HORTICULTURE: NURSERY MANAGEMENT (AS)

Program of Study Code: 002030

Term Effective: Fall 2018

26.00 Units

(707) 527-4409

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Environmental Horticulture: Nursery Management major prepares students to advance to management positions in nurseries that propagate, grow and market plants for use in the home, business or the landscape.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate proper plant propagation techniques;
2. define proper greenhouse environment required for propagation;
3. compare and contrast container vs field production systems,
4. apply appropriate behavior and workplace policies; and
5. organize an effective product display.

ENVIRONMENTAL HORTICULTURE: NURSERY REQUIREMENTS - COMPLETE 25.0 UNITS

AGRI 70	Integrated Pest Management	3.0
HORT 8	Plant Materials: Summer/Fall	3.0
HORT 12	Plant Materials: Winter/Spring	3.0
HORT 51	Introduction to Horticulture	3.0
HORT 70	Plant Propagation	3.0
HORT 71	Nursery Production	3.0
HORT 144	Landscape Irrigation	3.0

Complete any combination totaling at least 1.0 unit from the following:

AGRI 98	Independent Study in Agriculture	3.0
AGRI 99I	Agriculture Occupational Work Experience Internship	8.0

Complete any combination totaling at least 3.0 units from the following:

AGBUS 2	Agricultural Computer Applications	3.0
AGBUS 56	Introduction to Agriculture Business and Management	3.0
AGBUS 61	Agricultural Marketing	3.0
AGBUS 62	Agricultural Sales and Communication	3.0
HORT 72	Greenhouse Production	3.0
HORT 80	Landscape Practices	3.0
HORT 91	Landscape Construction/Estimation	3.0
HORT 93	Landscape Drafting and Design	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

Only one unit of AGRI 98 Independent Study or AGRI 99I Work Experience/Internship is required, but students may elect to take additional units.

ENVIRONMENTAL STUDIES (AA)

Program of Study Code: 002048

Term Effective: Fall 2018

21.00 Units

(707) 527-4638

kgerber@santarosa.edu (mailto:kgerber@santarosa.edu)

PROGRAM REQUIREMENTS:

The Environmental Studies major will provide students with an understanding of the manner in which various disciplines study the environment and approach our most pressing environmental issues. The degree in Environmental Studies will also help prepare students for transfer to a broad-based Environmental Studies program at a University of California or California State University campus.

PROGRAM STUDENT LEARNING OUTCOMES

1. Summarize, analyze and critically evaluate environmental information from a variety of sources;
2. apply critical thinking skills to identify environmental issues, recognize their causes, and to evaluate potential solutions;
3. integrate the perspectives of the humanities, social sciences and natural sciences as they pertain to environmental issues;
4. explain the societal (social, political, economic, cultural and/or ethical) variables that contribute to environmental degradation; and
5. reflect critically about their roles and identities as citizens, consumers, and environmental actors, in a complex interconnected world.

ENVIRONMENTAL STUDIES CORE REQUIREMENTS - COMPLETE 14.0 UNITS

ENVST 40	Environmental Forum	1.0

Complete any combination totaling at least 12.0 units from the following:

BIO 12	Basic Concepts of Ecology	3.0
ECON 12	Introduction to Economics and the Environment	3.0
ENGL 10	Introduction to Literature and the Environment	3.0
ENVS 12	Introduction to Environmental Science	3.0
NRM 12	Introduction to Environmental Conservation	3.0
PHIL 12	Environmental Philosophy	3.0
SOCS 12	Environmental Policy and Politics	3.0

Complete any combination totaling at least 1.0 unit from the following:

CI 53	Community Engagement Related to Environmental Studies	3.0
WEOC 99	Occupational Work Experience	8.0
WEOC 99I	Occupational Work Experience Internship	8.0

ENVIRONMENTAL STUDIES SCIENCE/MATH ELECTIVE REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ANTHRO 1	Biological Anthropology	3.0
BIO 2.1	Fundamentals of Biology (Cell and Molecular)	5.0
BIO 2.2	Fundamentals of Biology (Evolution, Genetics, and Zoology)	5.0
BIO 2.3	Fundamentals of Biology (Botany and Ecology)	5.0

BIO 12	Basic Concepts of Ecology	3.0
BIO 25	Marine Biology	4.0
BIO 27	Biology of Marine Mammals	3.0
BIO 31	Tropical Biodiversity and Conservation	2.0
BOTANY 60	Field Botany	4.0
CHEM 1A	General Chemistry	5.0
ENVS 12	Introduction to Environmental Science	3.0
GEOG 4	Physical Geography	3.0
GEOL 20	Natural Disasters	3.0
MATH 15	Elementary Statistics	4.0
NRM 12	Introduction to Environmental Conservation	3.0
NRM 51	Wildland Trees and Shrubs	3.0
NRM 84	Introduction to Fish and Wildlife Conservation	3.0
NRM 88	Watershed Ecology and Restoration	3.0
NRM 103	Restoring Native Habitats	0.5
SUSAG 50	Introduction to Sustainable Agriculture	3.0

ENVIRONMENTAL STUDIES BEHAVIORAL/SOCIAL SCIENCES/HUMANITIES ELECTIVE REQS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ANTHRO 2	Cultural Anthropology	3.0
ANTHRO 32	Native Cultures of North America	3.0
ARCH 12	Introduction to Environmental Design	3.0
ECON 1	Principles of Macroeconomics	3.0
ECON 2	Principles of Microeconomics	3.0
ECON 12	Introduction to Economics and the Environment	3.0
ENGL 10	Introduction to Literature and the Environment	3.0
GEOG 7	Introduction to Human Geography	3.0
HIST 22	History of California	3.0
HUMAN 5	World Humanities: Arts, Ideas, Values	3.0
PHIL 11	Introduction to Asian Philosophy	3.0
PHIL 12	Environmental Philosophy	3.0
POLS 25	Introduction to International Relations	3.0
SOCS 12	Environmental Policy and Politics	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

Completing four of six core courses is required to fulfill the core requirement for the major.
(BIO 12, ECON 12, ENVS 12, NRM 12, PHIL 12, SOCS 12, and ENGL 10)

Students are encouraged to use remaining core courses to fulfill elective requirements for the major.

No course may be used more than once to fulfill a requirement in the major.

The Work Experience/Internship/Community Involvement Requirement:

The work experience/internship/community involvement requirement is an integral part of the Environmental Studies major. This requirement is intended to give students the chance to apply knowledge and skills learned in the classroom to real-world situations. Additionally, it may provide networking opportunities and build awareness regarding potential career options. To develop an appropriate work experience/internship or community involvement experience, students will work with their instructors and the SRJC Work Experience and Internships department. Most students will complete this requirement in their second year of study.

EQUINE SCIENCE (AS)

Program of Study Code: 002005

Term Effective: Fall 2018

18.50 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

Today's multi-billion dollar horse industry is diverse, sophisticated and high tech, requiring individuals who are knowledgeable and skilled to work in this multi-faceted field that annually employs 1.4 million full time employees. Students who have studied at Santa Rosa Junior College with a major in Equine Science are more than qualified for a wide variety of these diverse careers in the equine industry. Many Equine Science graduates aim for a future in horse farm management at breeding facilities, lesson barns, and race and show training stables. Students may also qualify for employment as technologists, consultants, show and race facility managers and staff, high school and junior college riding and equine science instructors, government agents, journalists, and sale/service representatives for companies promoting horse feed, health, and care products. Other career opportunities are available through breed associations, humane organizations, agriculture extension services, recreational services, horse publications, and more.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify and implement sustainable equine management practices that will improve horse quality, provide efficacious management, protect the natural resources and ensure economic viability of the equine industry;
2. demonstrate a working knowledge of life cycles and state of the art principles of horse production to develop a ranch management calendar that incorporates scientifically based management decisions and the latest technological advances in equine husbandry;
3. name and demonstrate proper use of equipment used to humanely manage or treat horses;
4. recognize and practice basic horse handling safety skills while on the ground and when mounted;
5. identify and evaluate equine anatomy and physiology and relate form to function;
6. define nutritional needs and demonstrate proper feeding techniques; and
7. list common infectious diseases and parasites and explain the role of preventative health.

EQUINE SCIENCE REQUIREMENTS - COMPLETE 23.5 UNITS

AGRI 99I	Agriculture Occupational Work Experience Internship	8.0
ANSCI 20	Basic Animal Science	3.0
ANSCI 61	Livestock Feeding and Nutrition	3.0
EQSCI 25	Equine Science	3.0
EQSCI 52	Equine Health	3.0
EQSCI 80	Equine and Stable Management	3.0
EQSCI 101	Horse Handling Skills	1.5
EQSCI 170	Farrier Science	3.0

Complete any combination totaling at least 3.0 units from the following:

ANSCI 91	Rangeland Management	3.0
EQSCI 51	Equine Nutrition	1.0
EQSCI 53	Equine Reproduction	1.0
EQSCI 60	Equine Anatomy and Physiology	3.0
EQSCI 102	Beginning Horsemanship and Riding	1.5
EQSCI 120	Introduction to Equine Assisted Activities and Therapies	1.0
EQSCI 121	Applied Procedures: Adapted Riding/Therapeutic Horsemanship	1.5
EQSCI 122	Equine Assisted Activities and Therapies Program Management	3.0
EQSCI 151	Introduction to Equine Acupressure and Massage	1.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

AGRI 99I is to be taken for a minimum of 1 unit.

FASHION STUDIES: FASHION DESIGN ASSISTANT (AA)

Program of Study Code: 001035

Term Effective: Fall 2017

21.00 Units

(707) 527-4313

lbobo@santarosa.edu (mailto:lbobo@santarosa.edu)

PROGRAM REQUIREMENTS:

The Fashion Studies: Fashion Design Assistant Major is designed for students interested in careers in the fashion design field as deign assistants, pattern makers with large or small garment producers, or as a fashion entrepreneur who designs their own product. Students will learn about textiles and their manufacture, elements and principles of design as it relates to fashion and the figure, basic principles of fashion design and illustration. Students will develop patterns for original designs or from designer working sketches, execute those designs in fabric, and market the finished product.

PROGRAM STUDENT LEARNING OUTCOMES

1. Design garments, using both flat pattern and draping methods, draft patterns from sketch, and select appropriate fabric and trims.
2. Assemble a sample garment by cutting pattern pieces, and collecting appropriate findings according to specifications.
3. Research and identify the cyclical fashion trends.
4. Analyze garment features to interpret fit, line and design, color for individual figures.
5. Analyze fashion styles and designs appropriate for knitted fabrics and incorporate construction techniques specifically used with knits.
6. Prepare a business plan for a start-up fashion retail company.
7. Use critical thinking skills to analyze fashion design methods and applications.

FASHION STUDIES: FASHION DESIGN ASSISTANT REQUIREMENTS - COMPLETE 20.0 UNITS

FASH 8	Introductory Textiles	3.0
FASH 53	Fashion Analysis	3.0
FASH 56	Fashion Design and Illustration	3.0
FASH 60	Draped Design	2.0
FASH 62A	Flat Pattern Design 1	2.0
FASH 70A	Clothing Construction 1	3.0
FASH 70B	Clothing Construction 2	3.0
FASH 121A	Sewing with Knits: Basic Tee Shirts	0.5
FASH 121B	Advanced Sewing with Knits	0.5
FASH 139	Fashion Entrepreneurship	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

No course may be used more than once to fulfill a requirement in the major.
All courses must be completed with a grade of C or higher.

FASHION STUDIES: RETAIL MERCHANDISING (AA)

Program of Study Code: 001037

Term Effective: Fall 2017

21.50 Units

(707) 527-4318

lbobo@santarosa.edu (mailto:lbobo@santarosa.edu)

PROGRAM REQUIREMENTS:

The Fashion Studies: Retail Merchandising Major is designed for the student who is interested in a career in fashion retail and its many job opportunities, including sales, buying, fashion consulting, fashion coordination, and fashion display.

PROGRAM STUDENT LEARNING OUTCOMES

1. Utilize effective sales techniques in a retail setting;
2. identify and discuss various fashion cycles; and trends to recommend pricing structure and retail merchandising strategies;
3. identify and discuss the major categories on accessories important to the apparel lines;
4. describe how the cosmetics and fragrance industry relate to the ready-to-wear industry;
5. demonstrate the ability to recognize and select materials appropriate in fashion apparel and accessories;
6. analyze garment features to interpret fit, pricing, and recommend appropriate purchases to customers;
7. discuss the advantages and disadvantages of fashion apparel and accessories with customers in a retail settings;
8. produce a fashion show;
9. produce a visual merchandising display window; and
10. use critical thinking skills to analyze fashion retail merchandising methods and applications.

FASHION STUDIES: RETAIL MERCHANDISING REQUIREMENTS - COMPLETE 20.5 UNITS

BMK 51	Principles of Selling	3.0
BMK 60	Retail Merchandising Management	3.0
FASH 8	Introductory Textiles	3.0

FASH 52.2	Visual Merchandising	2.0
FASH 53	Fashion Analysis	3.0
FASH 106	Alterations of Readymade Clothes	1.0
FASH 151	Fashion Apparel and Accessories	3.0
FASH 152	Fashion Show	2.0
FASH 152L	Fashion Show Production Lab	0.5

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

All courses must be completed with a grade of C or higher.

FILM STUDIES (AA)

Program of Study Code: 001075

Term Effective: Fall 2018

20.00 Units

(707) 778-3687

mtraina@santarosa.edu (mailto:mtraina@santarosa.edu)

PROGRAM REQUIREMENTS:

The Film Studies major is designed for students pursuing lower division preparation for a baccalaureate degree in Film, including Cinema Studies, Film History, Film Production, Media Studies, and Screenwriting. It provides a basic foundation in film aesthetics, film history, and digital film production while meeting the typical lower division requirements for a bachelor's degree in Film at a four-year institution. The major is also designed to prepare students for careers in the film and television industries with opportunities to write and produce screenplays, collaboratively work on film production teams, and gain experience in programming and festival management through internships with the Petaluma campus cinematheque and Film Fest Petaluma, the city's annual short film festival.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate a technical and theoretical understanding of cinema, including narrative forms, genres, and the complex interplay of image, sound, and motion.
2. Demonstrate a broad-based understanding of the historical and aesthetic development of world cinema from its origins to the present day, including the impact of historical movements and new technologies.
3. Demonstrate the ability to work as part of a production team to effectively plan, organize, and execute the production of a short digital film project.
4. Demonstrate fluency in the vocabulary of film production and criticism.

5. Demonstrate skills in the critical analysis of cinema by identifying how specific formal techniques are used to functionally support film narratives.
6. Demonstrate an understanding of the roles and responsibilities of various industry professionals in both the artistic and commercial side of motion picture production, distribution and exhibition.
7. Demonstrate an understanding of motion pictures as a technology, business, cultural product, global entertainment medium, and industrial art form.

FILM STUDIES - COMPLETE 19.0 UNITS

MEDIA 10	Film Appreciation	4.0
MEDIA 14	Early Film History	4.0
MEDIA 15	Modern Film History	4.0
MEDIA 20	Introduction to Digital Filmmaking	4.0

Complete any combination totaling at least 3.0 units from the following:

MEDIA 4	Introduction to Mass Communication	3.0
MEDIA 22	Screenwriting	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

FIRE TECHNOLOGY (AS)

Program of Study Code: 002006

Term Effective: Fall 2019

21.00 Units

(707) 836-2913

rcollins@santarosa.edu (mailto:rcollins@santarosa.edu)

PROGRAM REQUIREMENTS:

The Fire Technology major provides practical and technical instruction to meet the requirements of various fire service agencies at the local, state, and federal levels.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify minimum qualifications and entry level skills for firefighter hiring. The student will be able to describe the following elements: application process, written exam process, physical agility exam, oral interview, chief's interview, background investigation and the firefighter;
2. demonstrate the ability to analyze, appraise and evaluate fire and emergency incidents and identify components of emergency management and firefighter safety including: size-up, report on conditions, the Incident Command

System, RECEO, the 10 Standard Firefighting Orders, the 18 Situations that shout “Watch Out”, the 16 Firefighter Life Safety Initiatives and the common factors associated with injuries and line of duty deaths;
3. identify and comprehend laws, regulations, codes and standards that influence fire department operations and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and ordinances and firefighter health and safety;
4. analyze the causes of fire, determine extinguishing agents and methods; differentiate the stages of the fire and fire development, and compare methods of heat transfer;
5. identify and describe the equipment and apparatus used in the fire service and the maintenance of said equipment and apparatus;
6. identify and describe common types of building construction and conditions associated with structural collapse and firefighter safety; and
7. differentiate between fire detection and alarm systems and identify common health and safety concerns of firefighters and first responders.

FIRE TECHNOLOGY MAJOR REQUIREMENTS - COMPLETE 21.0 UNITS

FIRE 71	Fire Protection Organization	3.0
FIRE 72	Fire Behavior and Combustion	3.0
FIRE 73	Fire Prevention Technology	3.0
FIRE 74	Fire Protection Equipment and Systems	3.0
FIRE 76	Building Construction for Fire Protection	3.0

Complete any combination totaling at least 3.0 units from the following:

FIRE 77	Hazardous Materials for Public Safety	3.0
FIRE 78	Principles of Fire & Emergency Services Safety and Survival	3.0

Complete any combination totaling at least 3.0 units from the following:

EMC 100	Emergency Medical Responder	2.0
EMC 103	Emergency Medical Technician	5.5
FIRE 50	Ethical Leadership in the Classroom	0.3
FIRE 61	Fire Investigation	3.0
FIRE 206	CAL FIRE Wildland Firefighter Academy	1.3
FIRE 208	Introduction to Firefighter I Academy	1.5
FIRE 208.1	Firefighter I Academy	15.0
FIRE 208.5	Firefighter II Capstone Training	0.5
FIRE 219	S-290 Intermediate Wildland Fire Behavior	0.5
FIRE 241	Driver Operator 1A	1.5
FIRE 258	Fire Apparatus 1B, Pumping Apparatus Operations	1.0
FIRE 270.1		

All Risk Command Operations for Company Officers		1.0
FIRE 270.2	Wildland Incident Operations for Company Officers	1.0
FIRE 270.3	Hazardous Materials Incident Commander	2.0
FIRE 271.1	Human Resource Management for Company Officers	1.0
FIRE 271.2	Fire Administration for Company Officers	1.0
FIRE 272	Fire Inspections and Investigations for Company Officers	1.0
FIRE 273.1	Fire Service Instructor 1	1.0
FIRE 273.2	Fire Service Instructor 2 Instructional Development	1.0
FIRE 273.3	Fire Service Instructor III Instructional Program Management	1.0
FIRE 280	Structural Firefighting Dynamics	0.3
FIRE 284	Truck Academy Operations	1.5

NOTES:

The following courses are suggested to help the student fulfill the minimum of 60 units in courses numbered 1-299 required for the associate degree: AJ 221.9, EMC 100, EMC 103, FIRE 77, FIRE 206, FIRE 208, FIRE 208.1, FIRE 212, FIRE 241 or FIRE 258.

Please see the catalog for a complete listing of degree requirements. All courses taken in conjunction with this program must be completed with a letter grade of 'C' or better.

FITNESS, NUTRITION AND HEALTH (AA)

Program of Study Code: 001058

Term Effective: Fall 2019

30.00 Units

(707) 778-4116

tjacobson@santarosa.edu (mailto:tjacobson@santarosa.edu)

PROGRAM REQUIREMENTS:

The Fitness, Nutrition, and Health Major at Santa Rosa Junior College is designed to provide an in-depth study and practical application of principles of nutrition, weight management, behavior modification, fitness testing, physical fitness training, exercise leadership and program design. This certificate/major is for students seeking entry-level

careers and/or additional training in the fitness and health industry. Possible career opportunities may include personal trainer, group exercise instructor, health or wellness coach, weight management consultant, aerobic dance instructor, and fitness instructor. This program also prepares students to sit for nationally recognized certification exams such as American Council on Exercise (ACE), National Academy of Sports Medicine (NASM), Aerobics and Fitness Association of America (AFAA), and National Strength and Conditioning Association (NSCA). This major is unique in its design because in addition to learning principles of exercise science, it also encompasses comprehensive topics in the area of health, nutrition, and behavior change vital for fitness trainers to address broader client goals and to meet the need of a growing trend toward wellness type coaching. This major also has a strong emphasis on practical "hands-on" experience and teaching techniques.

PROGRAM STUDENT LEARNING OUTCOMES

1. Design safe and effective training programs based on client needs, goals, fitness level and health history;
2. demonstrate proper individual and group exercise leadership skills for general and special populations;
3. evaluate client food intake and educate clients on healthful eating habits for weight management and physical performance;
4. integrate behavior modification techniques and concepts of health and wellness to formulate comprehensive training plans; and
5. analyze emerging information in the field of nutrition, health, and fitness and differentiate between credible and non-credible sources and information.

FITNESS, NUTRITION AND HEALTH MAJOR - COMPLETE 29.0 UNITS

FDNT 10	Elementary Nutrition	3.0
FDNT 60	Nutrition and Physical Fitness	1.0
KINES 1	Introduction to Kinesiology	3.0
KINES 50	Teaching Practicum	1.5
KINES 53	Principles of Health and Wellness	3.0
KINES 80	Introduction to Applied Kinesiology and Anatomy	3.0
KINES 81	Intro to Exercise Physiology	3.0
KINES 82	Exercise Assessment and Prescription	3.0
KINES 83	Techniques of Fitness Instruction	3.0
WEOC 99I	Occupational Work Experience Internship	8.0

Complete any combination totaling at least 3.0 units from the following:

BMK 50	Marketing	3.0
BMK 51	Principles of Selling	3.0
DIET 191	Counseling and Group Facilitation Skills in Healthcare	3.0
KINES 4	Introduction to Sports Medicine	3.0
KINES 59	Psychological Aspects of Sport Performance	3.0

Complete any combination totaling at least 1.5 units from the following:

KFIT 1.1	Beginning Aerobic Dance	1.5
KFIT 1.2	Intermediate Aerobic Dance	1.5

KFIT 2.1	Beginning Step Aerobics	1.5
KFIT 2.2	Intermediate Step Aerobics	1.5
KFIT 3.1	Beginning Body Conditioning	1.5
KFIT 3.2	Intermediate Body Conditioning	1.5
KFIT 3.3	Advanced Body Conditioning	1.5
KFIT 5.1	Beginning Pilates Mat	1.5
KFIT 5.2	Intermediate Pilates Mat	1.5
KFIT 6.1	Beginning Yoga	1.5
KFIT 6.2	Intermediate Yoga	1.5
KFIT 7.1	Beginning Circuit Training	1.5
KFIT 7.2	Circuit Training Intermediate	1.5
KFIT 8.1	Beginning Weight Lifting	1.5
KFIT 10.1	Resistance Training	1.5
KFIT 11.1	Periodized Weight Training	1.5
KFIT 12.1	Power Lifting	1.5
KFIT 16.1	Plyometrics, Speed and Agility	1.5
KFIT 17.1	Interval Training	1.5
KFIT 20.1	ZUMBA	1.5
KFIT 21.1	Cardio Kickboxing	1.5
KFIT 25.1	Vinyasa Flow Yoga	1.5
KFIT 26.1	Gentle Yoga	1.5
KFIT 30.1	Stability Ball Training	1.5
KFIT 31.1	Pilates Yoga Fusion	1.5
KFIT 32.1	Barre Fitness	1.5
KFIT 36.1	Jogging for Fitness	1.5
KFIT 37.1	Boot Camp	1.5

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

KINES 50 should be taken for 1 unit only

WEOC 99I MUST be taken for one unit of Occupational Work Experience Internship: 75 hours (paid) or 60 hours (unpaid). **One unit is the minimum requirement for this program.**

FLORAL DESIGN (AA)

Program of Study Code: 001028

Term Effective: Fall 2016

19.00 Units

(707) 527-4395

ddolan@santarosa.edu (mailto:ddolan@santarosa.edu)

PROGRAM REQUIREMENTS:

The Floral Design major prepares students for work in the floral design industry. Flower care and handling, basic design, use of seasonal, dry, silk, or exotic plant materials, floral decoration, and special occasion arrangement are some of the skills and topics covered in the program.

PROGRAM STUDENT LEARNING OUTCOMES

1. Name and properly use the tools and mechanics in floral design;
2. demonstrate proper standards of care and handling of fresh floral materials;
3. create fresh floral arrangements and distinguish between the different types of design styles; and
4. demonstrate an entry level knowledge of retail flower shop operation.

FLORAL DESIGN REQUIREMENTS - COMPLETE 18.0 UNITS

FLORS 83A	Beginning Floral Design	2.0
FLORS 83B	Intermediate Floral Design	2.0
FLORS 183C	Advanced Floral Design	2.0
FLORS 187	European & Advanced Contemporary Floral Design	1.0
FLORS 105	Flowers to Wear and Carry	1.0
FLORS 108	Display and Merchandising for Retail Florists	1.0
FLORS 112	Wedding Design	2.0
FLORS 113	Floral Tributes	2.0
FLORS 114	Retail Flower Shop Management	3.0
FLORS 116	Identification and Handling of Flowers, Foliages and Plants	2.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

Courses must be completed with a grade of C or better.

FRENCH (AA)

Program of Study Code: 001053

Term Effective: Fall 2018

18.00 Units

(707) 527-4608

tstraus@santarosa.edu (mailto:tstraus@santarosa.edu)

PROGRAM REQUIREMENTS:

The major in French will allow transfer students whose planned transfer major is French to learn an Associate Degree that prepares them for upper division coursework. In addition, the major in French will benefit students whose career paths involve international commerce or diplomacy.

PROGRAM STUDENT LEARNING OUTCOMES

1. Converse in French on a full range of topics, including but not limited to personal and family lives, school or work related topics, current events, historical, political and cultural perspectives with effective use of grammar and comprehensible pronunciation;
2. demonstrate an understanding of authentic texts in French on a wide range of topics, including but not limited to newspaper and magazine articles, short stories, letters, poems and essays by identifying and explaining the key points and themes both orally and in writing;
3. write cogent essays or term papers in grammatically correct French formulating and developing ideas on a full range of topics, including but not limited to, history, culture, literary analysis and current events; and
4. demonstrate cultural awareness and appreciation of the French and francophone experience by examining, identifying and analyzing the values, attitudes and traditions that characterize such experience.

FRENCH MAJOR REQUIREMENTS - COMPLETE 17.0 UNITS

FREN 3	Intermediate French-Part 1	4.0
FREN 4	Intermediate French Part 2	4.0

Complete any combination totaling at least 9.0 units from the following:

ART 2.2	History and Appreciation of Late Gothic to Impressionist Art	3.0
ENGL 25	Introduction to Language Study	3.0
FREN 1	Elementary French-Part 1	4.0
FREN 2	Elementary French-Part 2	4.0
FREN 50B	Conversation for Beginners-Part 2	3.0
FREN 50C	Intermediate Conversation	3.0
FREN 58	High Intermediate Conversation	2.0
HIST 4.2	History of Western Civilization from 1648 C.E.	3.0
HUMAN 4.1	Western Humanities: Arts, Ideas, and Values	3.0
HUMAN 4.2	Western Humanities from 1600	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

FREN 1, FREN 2, and FREN 58 will only be accepted for the major if completed before FREN 3.

GEOSPATIAL TECHNOLOGY (AS)

Program of Study Code: 002053

Term Effective: Fall 2017

24.50 Units

(707) 527-4603

rparks@santarosa.edu (mailto:rparks@santarosa.edu)

PROGRAM REQUIREMENTS:

The Geospatial Technology certificate/degree prepares students for variety of technical positions in many different professions. Geospatial Technology incorporates new technology with traditional disciplines by mapping and analyzing things that exist and events that happen on earth.

PROGRAM STUDENT LEARNING OUTCOMES

1. Define and describe geospatial terminology, methods, procedures, standards and technology;
2. create, edit and analyze geographic, spatial and remotely sensed data;
3. communicate clearly and effectively in oral, written and graphic formats;
4. prepare layouts, reports, charts and graphs to support different geospatial applications;
5. produce finished quality maps representing a basic analysis, a basic survey or a basic scale-based, descriptive, diagrammatic summary;
6. create a Geographic Information System (GIS) map following standard cartographic principles which can be utilized within a professional portfolio;
7. demonstrate analytical, critical thinking and decision-making skills in geographic information science and technology; and
8. describe the influence/effect that geospatial science and technology has on the local, regional, national and global communities.

GEOSPATIAL TECHNOLOGY CORE REQUIREMENTS - COMPLETE 23.5 UNITS

APTECH 191	Problem Solving in Civil Engineering Technology	3.0
CEST 192	Non-Technical Skills for the Civil Engineering Technician	1.5
GEOG 4	Physical Geography	3.0
GIS 40	Introduction to Geographic Information Systems (GIS)	3.0
GIS 51	Intermediate Geographic Information Systems (GIS)	3.0
GIS 52	Advanced Geographic Information Systems (GIS)	3.0
GIS 53		

	Cartography in Geographic Information Systems (GIS)	3.0
GIS 54	Data Acquisition in Geographic Information Systems (GIS)	4.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

GRAPHIC DESIGN (AA)

Program of Study Code: 001025

Term Effective: Fall 2019

31.50 Units

(707) 527-4909

swinston@santarosa.edu (mailto:swinston@santarosa.edu)

PROGRAM REQUIREMENTS:

The Graphic Design major is designed to provide students with entry-level skills for business or industry in the field of graphic design, and is structured to provide a practical, hands-on experience in graphic fundamentals.

PROGRAM STUDENT LEARNING OUTCOMES

1. Develop professional level communication visuals from initial concept all the way through printed materials using design principles, an understanding of graphic design history, typographic knowledge, hand mock-up and illustration skills, advanced computer skills using the Adobe Suite, and pre press knowledge;
2. set-up and manage a one person freelance studio complying with governmental regulations, estimating projects, writing up proposals, negotiating with clients, keeping records, billing clients, and managing finances; and
3. create and present a professional portfolio of at least fifteen finished projects to potential employers and clients using professional level interviewing skills and well designed collateral materials.

GRAPHIC DESIGN MAJOR REQUIREMENTS - COMPLETE 31.5 UNITS

CS 70.11A	Adobe Photoshop 1	3.0
CS 71.11	Adobe Illustrator 1	3.0
CS 72.11A	Adobe InDesign 1	3.0
GD 15	History of Graphic Design	3.0
GD 20	Introduction to Typography and Letterforms	3.0
GD 51	Introduction to Graphic Design	3.0
GD 53	Design Techniques in Illustrator	3.0
GD 54	Beginning Page Layout and Advertising Design	3.0

GD 60	Creating the Professional Portfolio	1.5
GD 62	Color Theory for Designers	1.5

Complete any combination totaling at least 4.5 units from the following:

BMK 51	Principles of Selling	3.0
GD 57	Getting It Printed: Digital Prepress and Print Production	3.0
GD 65	Business Skills for Creatives	1.5
GD 90	Designing the User Experience	3.0
GD 145	Package Design	1.5

HEALTHCARE INTERPRETER (AS)

Program of Study Code: 002073

Term Effective: Fall 2018

28.00 Units

(707) 524-1819

ccarr@santarosa.edu (mailto:ccarr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Healthcare Interpreter major prepares students who are bilingual (proficient in English and a second language) to work in a variety of healthcare settings facilitating communication between clients and healthcare providers. Students will follow standards of practice for different modes of interpreting, strengthen their medical bilingual language proficiency, cultural competency, and knowledge of California healthcare systems to assist limited-English proficient (LEP) clients to receive optimal medical care. Students may be exposed to people who are injured, chronically or acutely ill, and experiencing other major life events.

PROGRAM STUDENT LEARNING OUTCOMES

1. Facilitate linguistic and cultural communication between patients (clients) with limited English proficiency (LEP) and healthcare providers in a variety of health service areas.
2. Discuss and implement ethical standards of practice.
3. Demonstrate bilingual medical language proficiency.
4. Employ various technical aspects of interpreting to improve effectiveness.
5. Utilize healthcare interpreter roles and skills in different modes of interpretation.

HEALTHCARE INTERPRETER PREREQUISITE REQUIREMENTS - COMPLETE 12.0 UNITS

COMM 7	Intercultural Communication	3.0
ENGL 1A	College Composition	4.0
HCI 180	Introduction to Healthcare Interpreting	1.5

HCI 180L	Introduction to Healthcare Interpreting Lab	0.5
HCI 181	Fundamentals of Healthcare Interpreting	2.0
HCI 181L	Fundamentals of Healthcare Interpreting - Lab	1.0

HEALTHCARE INTERPRETER REQUIREMENTS - COMPLETE 15.0 UNITS

HCI 182	Developing Healthcare Interpreter Competencies	2.0
HCI 182L	Developing Healthcare Interpreter Competencies - Lab	1.0
HCI 183	Healthcare Interpreting: Externship Seminar	1.0
HCI 183L	Healthcare Interpreting: Externship	2.0
HLC 160	Medical Terminology	3.0

Complete any combination totaling at least 3.0 units from the following:

ANAT 58	Introduction to Human Anatomy	3.0
HLC 140	Health Care Implications of Anatomy and Physiology	1.0

And

ANAT 140	Fundamentals of Anatomy and Physiology	2.0

Complete any combination totaling at least 3.0 units from the following:

COMM 1	Introduction to Public Speaking	3.0
COMM 60	Communication Skills	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

HISTORY (AA-T)

Program of Study Code: 001066

Term Effective: Fall 2019

18.00 Units

(707) 524-1812

adonegan@santarosa.edu (mailto:adonegan@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Arts for Transfer in History will develop skills and knowledge consistent with the study of history in a global, multicultural and comparative context. The successful student will have mastered the reading, writing, and research skills essential to historical inquiry and exposition. The History Associate in Arts for Transfer degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree. (1) Complete 60 semester units that are eligible for transfer to the California State University, including both of the following: (A) The Inter-segmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth requirements; and (B) A minimum of 18-19 semester units as required for the Associate in Arts for Transfer in History major. (2) Obtain an overall minimum grade point average of 2.0 (3) Earn a grade of C or better in all courses required for the Associate in Arts for Transfer in History major.

PROGRAM STUDENT LEARNING OUTCOMES

1. Write clearly, concisely and persuasively about historically significant people, events and problems;
2. create, organize and support an historical argument in written and/or oral presentation;
3. identify and evaluate multiple perspectives and approaches to historical understanding;
4. understand and appreciate diversity and develop a worldview informed by multicultural and global perspectives; and
5. demonstrate the ability to reconstruct the past through inquiry, research, critical thinking and problem solving.

HISTORY FOR TRANSFER CORE REQUIREMENTS - COMPLETE 6.0 UNITS

HIST 17.1	History of the United States to 1877	3.0
HIST 17.2	U.S. History from 1877	3.0

HISTORY FOR TRANSFER LIST A REQUIREMENTS - COMPLETE 6.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

HIST 1.1	World History to 1500	3.0
HIST 4.1	History of Western Civilization to 1648 C.E.	3.0

Complete any combination totaling at least 3.0 units from the following:

HIST 1.2	World History Since 1500 C.E.	3.0
HIST 4.2	History of Western Civilization from 1648 C.E.	3.0

HISTORY FOR TRANSFER LIST B AREA 1 REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

HIST 1.1	World History to 1500	3.0
HIST 1.2	World History Since 1500 C.E.	3.0
ANTHRO 2	Cultural Anthropology	3.0
ANTHRO 3	Prehistory & Archaeology	3.0
ANTHRO 21	American Folklore and Folklife	3.0

ANTHRO 30	Anthropology of Globalization	3.0
ANTHRO 31	Mesoamerican Origins of Latino Culture	3.0
ANTHRO 32	Native Cultures of North America	3.0
ANTHRO 34	Native Cultures of California	3.0
ANTHRO 43	Native American Art and Culture	3.0
ART 1.1	World Art History to 1500	3.0
ART 1.2	World Art History Since 1500	3.0
COUN 74	Identity and Cultural Diversity	3.0
ENGL 31	African American Arts and Literature	3.0
ENGL 33	Chicano/Chicana Arts and Literature	3.0
FREN 1	Elementary French-Part 1	4.0
FREN 2	Elementary French-Part 2	4.0
FREN 3	Intermediate French-Part 1	4.0
FREN 4	Intermediate French-Part 2	4.0
GERM 1	Elementary German-Part 1	4.0
GERM 2	Elementary German-Part 2	4.0
GERM 3	Intermediate German-Part 1	4.0
GERM 4	Intermediate German-Part 2	4.0
HIST 5	History of the Modern Middle East	3.0
HIST 8.1	History of Latin America from Pre-Columbian to 1830	3.0
HIST 8.2	History of Latin America from 1830 to Present	3.0
HIST 18.1	History of Women in the United States to 1877	3.0
HIST 18.2	History of Women in the United States Since 1877	3.0
HIST 21	Race, Ethnicity and Gender in American Culture	3.0
HIST 22	History of California	3.0
HIST 26	History of Chicanos and Latinos from 1848 to Present	3.0
HIST 30	African American History	3.0
HIST 33	History of Mexico	3.0
HUMAN 5	World Humanities: Arts, Ideas, Values	3.0
HUMAN 6	Humanities in the United States	3.0
HUMAN 20	The Humanities in Asia: Arts, Ideas and Values	3.0
HUMAN 21	The Humanities in the Middle East	3.0
HUMAN 22		

Humanities in Africa: Arts, Ideas, and Values		3.0
INTDIS 2	Popular Culture in the United States	3.0
INTDIS 4	Culture and Values in Latin America and The Caribbean	3.0
ITAL 1	Elementary Italian-Part 1	4.0
ITAL 2	Elementary Italian-Part 2	4.0
ITAL 3	Intermediate Italian-Part 1	4.0
ITAL 4	Intermediate Italian-Part 2	4.0
MUSC 9	Jazz Appreciation	3.0
RELS 15	Islam	3.0
SOC 30	Race and Ethnic Relations	3.0
SPAN 1	Elementary Spanish-Part 1	4.0
SPAN 2	Elementary Spanish-Part 2	4.0
SPAN 3	Intermediate Spanish-Part One	4.0
SPAN 4	Intermediate Spanish-Part 2	4.0
THAR 6	Multicultural Perspectives in American Theatre	3.0

HISTORY FOR TRANSFER LIST B AREA 2 REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ART 2.1	History & Aesthetic Appreciation of Prehistoric - Gothic Art	3.0
ART 2.2	History and Appreciation of Late Gothic to Impressionist Art	3.0
ART 2.3	History and Appreciation of Modern Art	3.0
ECON 1	Principles of Macroeconomics	3.0
ECON 2	Principles of Microeconomics	3.0
ECON 12	Introduction to Economics and the Environment	3.0
ENGL 30.1	American Literature: Pre-Colonial Period to the Civil War	3.0
ENGL 30.2	American Literature from 1865 to the Present	3.0
ENGL 46.1	Survey of English Literature Part 1	3.0
ENGL 46.2	Survey of English Literature Part 2	3.0
GEOG 3	World Regional Geography	3.0
GEOG 7	Introduction to Human Geography	3.0
HIST 20	History of the US Since 1945	3.0
HUMAN 4.1		

Western Humanities: Arts, Ideas, and Values		3.0
HUMAN 4.2	Western Humanities from 1600	3.0
HUMAN 8	Comparative Mythology	3.0
PHIL 9	Political Philosophy	3.0
PHIL 10	Philosophy of Peace and Nonviolent Action	3.0
PHIL 11	Introduction to Asian Philosophy	3.0
PHIL 20	History of Western Philosophy: Ancient and Medieval	3.0
PHIL 21	History of Western Philosophy: Modern	3.0
POLS 1	Introduction to United States Government	3.0
POLS 2	Introduction to Comparative Government	3.0
POLS 18	Political Theory	3.0
POLS 25	Introduction to International Relations	3.0
RELS 1	Introduction to Religious Studies	3.0
RELS 2	World Religions	3.0
RELS 3	History of God	3.0
RELS 6.66	History of Satan	3.0
RELS 21	The Hebrew Bible	3.0
RELS 22	Early Christian Literature	3.0
RELS 32	Religion in America	3.0
SOC 1	Introduction to Sociology	3.0
SOC 2	Modern Social Problems	3.0
SOCS 12	Environmental Policy and Politics	3.0

HOSPITALITY MANAGEMENT (AS-T)

Program of Study Code: 002075

Term Effective: Fall 2018

18.00 Units

(707) 527-4627

ayu@santarosa.edu (mailto:ayu@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Science for Transfer in Hospitality Management is designed to provide a clear pathway to a CSU major and baccalaureate programs in Hospitality Management. The Hospitality Management major also offers a comprehensive educational approach to a career in the hospitality industry. The curriculum is designed to prepare

students with both management theories and occupational job skills required to enter any segment of the industry. Students take classes specific to the industry including introduction to hospitality, introduction to the hotel industry, and hospitality law. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree. 1. Completion of 60 units that are eligible for transfer to the California State University, including both of the following: * The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements; and * A minimum of 18 semester units as required for the Associate in Science for Transfer in Hospitality Management major. 2. Obtainment of an overall minimum grade point of 2.0. 3. Earn a grade of C or better in all courses required for the Associate in Science for Transfer in Hospitality Management major.

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe effective customer service and be able to meet and exceed guest expectations in any hospitality industry environment through the concept of anticipating a guest's needs.
2. Demonstrate the knowledge needed to be a supervisor in a hospitality business.
3. Identify specific job titles within the hospitality, food service, and tourism industries and describe the responsibilities of the positions as well as the outlook for future job growth.
4. Demonstrate the ability to use management skills resulting in an ethical and productive hospitality work environment.
5. Demonstrate the ability to use various technologies, systems and computer applications for the hospitality industry.
6. Describe an ongoing personal professional development plan to enhance leadership and management skills for the hospitality environment.
7. Analyze the interdependence of various tourism sectors on a local, national and global scale when faced with industry issues.

HOSPITALITY MANAGEMENT REQUIREMENTS - COMPLETE 18.0 UNITS

HOSP 80	Introduction to Hospitality	3.0
ECON 2	Principles of Microeconomics	3.0
HOSP 63	Introduction to the Hotel Industry	3.0
HOSP 68	Hospitality Law	3.0

Complete any combination totaling at least 6.0 units from the following:

BAD 1	Financial Accounting	4.0
BAD 2	Managerial Accounting	4.0
ECON 1	Principles of Macroeconomics	3.0
FDNT 10	Elementary Nutrition	3.0
MATH 15	Elementary Statistics	4.0

HUMAN SERVICES: ADVOCACY (AA)

Program of Study Code: 001014

Term Effective: Fall 2019

38.50 Units

(707) 522-2603

avasquez@santarosa.edu (mailto:avasquez@santarosa.edu)

PROGRAM REQUIREMENTS:

The Human Services: Advocacy major is designed as an interdisciplinary approach to understanding the skills needed in human rights advocacy. Particular attention is given to the ways in which processes and practices are handled for some individuals.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate an understanding of the human services field and its operational function in relation to client services;
2. examine and perform various human service roles within the profession incorporating counseling skills, ethical principles and sensitivity to diversity;
3. demonstrate ability to use research tools to locate and evaluate information that can be applied to the human services field; and
4. demonstrate an understanding of theoretical principles in the behavioral sciences to help address the needs of human services clients.

HUMAN SERVICES: ADVOCACY CORE REQUIREMENTS - COMPLETE 28.5 UNITS

AODS 90	Introduction to Alcohol and Drug Studies	3.0
COUN 74	Identity and Cultural Diversity	3.0
COUN 87	Ethical Issues in Human Services	1.5
COUN 90	Introduction to Human Services	3.0
COUN 91	Skills and Techniques in Human Services	3.0
COUN 93	Introduction to Case Management	3.0
COUN 99I	Occupational Work Experience Human Services Internship	8.0

Complete any combination totaling at least 3.0 units from the following:

COUN 92	Introduction to Group Counseling	3.0
COUN 94	Introduction to Crisis Counseling	3.0
COUN 96	Disability and Society	3.0

Complete any combination totaling at least 3.0 units from the following:

CHLD 10	Child Growth and Development	3.0
PSYCH 4	Child and Adolescent Psychology	3.0
PSYCH 56	Aging, Dying and Death	3.0

Complete any combination totaling at least 3.0 units from the following:

PSYCH 1A	General Psychology	3.0
PSYCH 5	Abnormal Psychology	3.0

ADVOCACY EMPHASIS REQUIREMENTS - COMPLETE 9.0 UNITS

COUN 95	Advocating for Social Change	3.0

Complete any combination totaling at least 6.0 units from the following:

AJ 25	Community Relations	3.0
AJ 53	Juvenile Procedures	3.0
AJ 56	Crime and Criminal Justice in Society	3.0
AJ 71	Correctional Interviewing & Counseling	3.0
ASL 1	Elementary American Sign Language - Part I	4.0
CHLD 10	Child Growth and Development	3.0
CHLD 53A	Introduction to Children with Special Needs	3.0
CHLD 90.1	Child, Family, Community Interrelationships	3.0
COUN 20	Sex and Gender	3.0
COUN 92	Introduction to Group Counseling	3.0
COUN 94	Introduction to Crisis Counseling	3.0
COUN 96	Disability and Society	3.0
HLC 160	Medical Terminology	3.0
PHIL 7	Contemporary Moral Issues	3.0
PSYCH 3	Human Sexuality	3.0
PSYCH 4	Child and Adolescent Psychology	3.0
PSYCH 5	Abnormal Psychology	3.0
PSYCH 7	Theories of Personality	3.0
PSYCH 30	Social Psychology	3.0
PSYCH 40	Introduction to Psychology of Gender	3.0
PSYCH 56	Aging, Dying and Death	3.0
RELS 2	World Religions	3.0
SOC 2	Modern Social Problems	3.0
SOC 30	Race and Ethnic Relations	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

It is strongly recommended that students complete COUN 91 and COUN 99I in the final semester of taking the core requirements.

CHILD 10, COUN 92, COUN 94, COUN 96, PSYCH 4, PSYCH 5 and PSYCH 56 can only count once.

HUMAN SERVICES: ALCOHOL AND DRUG (AA)

Program of Study Code: 001015

Term Effective: Fall 2016

47.50 Units

(707) 524-1701

avasquez@santarosa.edu (mailto:avasquez@santarosa.edu)

PROGRAM REQUIREMENTS:

The Human Services: Alcohol & Drug major is designed to provide the student with the academic preparation and field experience needed to work with the drug-dependent. It provides a broad base of knowledge regarding approaches to drug education and prevention, treatment issues, counseling skills, ethical issues, and practical knowledge about drugs and their effects.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate an understanding of the human services field and its operational function in relation to client services;
2. examine and perform various human service roles within the profession incorporating counseling skills, ethical principles and sensitivity to diversity;
3. demonstrate ability to use research tools to locate and evaluate information that can be applied to the human services field;
4. demonstrate an understanding of theoretical principles in the behavioral sciences to help address the needs of human services clients; and
5. identify the essential components of alcohol and drug addiction and employ the tools and skills needed to work with clients in treatment centers.

HUMAN SERVICES CORE REQUIREMENTS - COMPLETE 34.5 UNITS

COUN 74	Identity and Cultural Diversity	3.0
COUN 87	Ethical Issues in Human Services	1.5
COUN 90	Introduction to Human Services	3.0
COUN 91	Skills and Techniques in Human Services	3.0
COUN 92	Introduction to Group Counseling	3.0
COUN 93	Introduction to Case Management	3.0
COUN 94		

Intervention/Crisis Training	Counseling	3.0
COUN 96	Disability and Society	3.0
AODS 90	Introduction to Alcohol and Drug Studies	3.0

Complete any combination totaling at least 3.0 units from the following:

COUN 99I	Occupational Work Experience Human Services Internship	8.0
WEOC 99I	Occupational Work Experience Internship	8.0

Complete any combination totaling at least 3.0 units from the following:

PSYCH 1A	General Psychology	3.0
PSYCH 5	Abnormal Psychology	3.0

Complete any combination totaling at least 3.0 units from the following:

CHLD 10	Developmental Stages of Childhood	3.0
PSYCH 4	Child and Adolescent Psychology	3.0
PSYCH 56	Aging, Dying and Death	3.0

ALCOHOL & DRUG EMPHASIS REQUIREMENTS - COMPLETE 12.0 UNITS

AODS 91	Prevention and Education on Alcohol and Drugs	3.0
AODS 92	Pharmacological & Physiological Effects of Alcohol & Drugs	3.0
AODS 93	Rehabilitation of Alcohol & Drug Problems	3.0
COUN 99I	Occupational Work Experience Human Services Internship	8.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

It is strongly recommended that students complete COUN 91 and COUN 99I in the final semester of taking the core requirements. In this program, COUN 99I consists of internships in alcohol or drug settings.

CAADE Certification requires that students complete two internships in different modalities. Students will therefore complete a second COUN 99I internship as part of the Alcohol and Drug emphasis requirements.

HUMANITIES (AA)

Program of Study Code: 001022

Term Effective: Fall 2019

19.00 Units

(707) 524-1519

kloewen@santarosa.edu (mailto:kloewen@santarosa.edu)

PROGRAM REQUIREMENTS:

The Humanities major is intended for the student who wants to explore the arts, ideas, values, and cultural expressions of the world's peoples as a foundation for lifelong learning or as an introduction to the related fields of Humanities and Interdisciplinary Studies, Art History, Music Appreciation, Theatre Arts, Philosophy, English Literature, Modern and Classical Languages, or Religious Studies. This major is broad and exploratory in nature and is not intended to fulfill the requirements for transfer in a specific field.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify components and approaches of the Humanities as an academic discipline;
2. communicate knowledge of topics and themes related to art, cultures and societies worldwide orally and in writing;
3. apply humanistic methodology to analyze features of cultural and ethnic groups;
4. analyze and interpret significant texts, artifacts and traditions within a broad cultural and historical framework; and
5. identify and investigate a focus on one or more disciplines for further study.

HUMANITIES MAJOR REQUIREMENTS - COMPLETE 18.0 UNITS

Complete any combination totaling at least 18.0 units from the following:

ANTHRO 31	Mesoamerican Origins of Latino Culture	3.0
ANTHRO 43	Native American Art and Culture	3.0
ARCH 2.1	History of World Architecture: Prehistory to Gothic	3.0
ARCH 2.2	History of World Architecture: Renaissance to 20th Century	3.0
ARCH 2.3	History of World Architecture: 20th Century and Contemporary	3.0
ART 1.1	World Art History to 1500	3.0
ART 1.2	World Art History Since 1500	3.0
ART 2.1	History & Aesthetic Appreciation of Prehistoric - Gothic Art	3.0
ART 2.2	History and Appreciation of Late Gothic to Impressionist Art	3.0
ART 2.3	History and Appreciation of Modern Art	3.0
ART 3	Introduction to Art and Design	3.0
ART 4	Principles of Color	3.0
ART 5	Three Dimensional Design	3.0

ART 7A	Drawing and Composition 1	3.0
ART 69	Introduction to Cartooning and Sequential Art	3.0
ASL 1	Elementary American Sign Language - Part 1	4.0
ASL 2	Elementary American Sign Language - Part 2	4.0
ASL 3	Intermediate American Sign Language - Part 1	4.0
ASL 4	Intermediate American Sign Language - Part 2	4.0
CHIN 1	Elementary Chinese - Part 1	4.0
COMM 2	Spoken Word	3.0
DANCE 2	Survey of Dance History	3.0
ENGL 1B	Literature and Composition	3.0
ENGL 2	Introduction to the Novel	3.0
ENGL 3	Introduction to Poetry	3.0
ENGL 7	Introduction to the Short Story	3.0
ENGL 9	Contemporary World Literature	3.0
ENGL 10	Introduction to Environmental Literature	3.0
ENGL 12	Children's Literature	3.0
ENGL 25	Introduction to Language Study	3.0
ENGL 27	Introduction to Shakespeare	3.0
ENGL 30.1	American Literature: Pre-Colonial Period to the Civil War	3.0
ENGL 30.2	American Literature from 1865 to the Present	3.0
ENGL 31	African-American Literature	3.0
ENGL 33	Chicano/Chicana Arts and Literature	3.0
ENGL 36	Lesbian, Gay, Bisexual,Transgender Arts and Literature	3.0
ENGL 46.1	Survey of English Literature Part 1	3.0
ENGL 46.2	Survey of English Literature Part 2	3.0
FREN 1	Elementary French-Part 1	4.0
FREN 2	Elementary French-Part 2	4.0
FREN 3	Intermediate French-Part 1	4.0
FREN 4	Intermediate French-Part 2	4.0
GD 15	History of Graphic Design	3.0
GERM 1	Elementary German-Part 1	4.0
GERM 2	Elementary German-Part 2	4.0
GERM 3	Intermediate German-Part 1	4.0

GERM 4	Intermediate German-Part 2	4.0
HIST 1.1	World History to 1500	3.0
HIST 1.2	World History Since 1500 C.E.	3.0
HIST 4.1	History of Western Civilization to 1648 C.E.	3.0
HIST 4.2	History of Western Civilization from 1648 C.E.	3.0
HUMAN 4.1	Western Humanities: Arts, Ideas, and Values	3.0
HUMAN 4.2	Western Humanities From 1600	3.0
HUMAN 5	World Humanities: Arts, Ideas, Values	3.0
HUMAN 6	Humanities in the United States	3.0
HUMAN 7	Introduction to the Humanities	3.0
HUMAN 8	Comparative Mythology	3.0
HUMAN 20	The Humanities in Asia: Arts, Ideas and Values	3.0
HUMAN 21	The Humanities in the Middle East	3.0
HUMAN 22	Humanities in Africa: Arts, Ideas, and Values	3.0
INTDIS 2	Popular Culture in the United States	3.0
INTDIS 4	Culture and Values in Latin America and The Caribbean	3.0
ITAL 1	Elementary Italian-Part 1	4.0
ITAL 2	Elementary Italian-Part 2	4.0
ITAL 3	Intermediate Italian-Part 1	4.0
ITAL 4	Intermediate Italian-Part 2	4.0
ITAL 39.1	Introduction To Italian Literature In Translation	3.0
ITAL 70A	Intermed Italian Conversation & Culture Thru Film I	3.0
MEDIA 4	Introduction to Mass Communication	3.0
MEDIA 10	Film Appreciation	4.0
MEDIA 14	Early Film History	4.0
MEDIA 15	Modern Film History	4.0
MUSC 6.1	Music History and Literature: Antiquity to 1750	3.0
MUSC 6.2	Music History and Literature: 1750-Present	3.0
MUSC 7	Classical Music Appreciation	3.0
MUSC 8	World Music Appreciation	3.0
MUSC 9	Jazz Appreciation	3.0
PHIL 6	Introduction to Philosophy	3.0

PHIL 7	Contemporary Moral Issues	3.0
PHIL 9	Political Philosophy	3.0
PHIL 10	Philosophy of Peace and Nonviolent Action	3.0
PHIL 11	Introduction to Asian Philosophy	3.0
PHIL 12	Environmental Philosophy	3.0
PHIL 20	History of Western Philosophy: Ancient and Medieval	3.0
PHIL 21	History of Western Philosophy: Modern	3.0
RELS 1	Introduction to Religious Studies	3.0
RELS 2	World Religions	3.0
RELS 3	History of God	3.0
RELS 6.66	History of Satan	3.0
RELS 15	Islam	3.0
RELS 21	The Hebrew Bible	3.0
RELS 22	Early Christian Literature	3.0
RELS 32	Religion in America	3.0
SPAN 1	Elementary Spanish-Part 1	4.0
SPAN 2	Elementary Spanish-Part 2	4.0
SPAN 3	Intermediate Spanish-Part One	4.0
SPAN 4	Intermediate Spanish-Part 2	4.0
SPAN 40	Introductory Spanish for Spanish Speakers	4.0
SPAN 41	Intermediate Spanish for Spanish Speakers	4.0
THAR 1	World Theatre Through Time	3.0
THAR 2	Introduction to Theatre Arts	3.0
THAR 6	Multicultural Perspectives in American Theatre	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

INTERIOR DESIGN (AA)

Program of Study Code: 001026

Term Effective: Fall 2018

34.00 Units

(707) 527-4603

scanepa@santarosa.edu (mailto:scanepa@santarosa.edu)

PROGRAM REQUIREMENTS:

The Interior Design major prepares students for employment in full service interior design firms, retail establishments, architectural firms, space planning agencies, real estate, construction and development companies.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply problem solving to produce practical solution to clients' space needs by applying the materials, methods, and principles of interior design, including historical, sustainable, and design for special populations;
2. Use manual and digital graphic methods and oral presentation skills to communicate interior design solutions to sub-contractors, suppliers, and clients;
3. Identify the business practices, building codes, and professional ethics of the interior design trade.

INTERIOR DESIGN REQUIREMENTS - COMPLETE 34.0 UNITS

APTECH 46	Introduction to Computer-Aided Drafting	2.0
APTECH 59	Architectural CAD Basics	2.0
ARCH 60	Digital Presentation Graphics	2.0
ARCH 65	3D Modeling with Revit	2.0
INDE 20	Introduction to Interior Design	3.0
INDE 50	Drafting and Drawing for Interiors	3.0
INDE 52	Interior Environment and Space Planning	3.0
INDE 62.1	History of Furniture 1	3.0
INDE 63	Interior Products, Materials, and Lighting	3.0
INDE 64.1	Professional Practices for Interior Design	3.0
INDE 136	Interior Design Studio	3.0
INDE 140	Portfolios for Interior Design	2.0

Complete any combination totaling at least 3.0 units from the following:

ARCH 2.1	History of World Architecture: Prehistory to Gothic	3.0
ARCH 2.2	History of World Architecture: Renaissance to 20th Century	3.0
ARCH 2.3	History of World Architecture: 20th Century and Contemporary	3.0
ARCH 12	Introduction to Environmental Design	3.0
ART 3	Introduction to Art and Design	3.0
ART 4	Principles of Color	3.0
ART 5	Three Dimensional Design	3.0
ART 7A	Drawing and Composition 1	3.0
ART 82	Beginning Digital Photography	3.0

BMK 50	Marketing	3.0
BMK 51	Principles of Selling	3.0
BMK 54	Advertising	3.0
BMK 57	Introduction to Public Relations	1.5
BMK 59	Consumer Behavior	1.5
COMM 1	Introduction to Public Speaking	3.0
COMM 60	Communication Skills	3.0
CS 71.11	Adobe Illustrator 1	3.0
CS 74.11	Introduction to Digital Media	3.0

JOURNALISM (AA)

Program of Study Code: 001059

Term Effective: Fall 2019

22.00 Units

(707) 527-4867

abelden@santarosa.edu (mailto:abelden@santarosa.edu)

PROGRAM REQUIREMENTS:

The Journalism major provides students with both theoretical knowledge of and practical experience in Journalism. Successful students will be capable of initiating careers as skilled, principled journalists or other media professionals. This emphasis offers comprehensive lower division work in the field of Journalism, including at least one semester working on The Oak Leaf student newspaper and website.

PROGRAM STUDENT LEARNING OUTCOMES

1. Develop story ideas, conduct research and interviews, and write news and feature stories, opinion columns and critical reviews on deadline for both print and web publishing;
2. use various media (i.e. audio, photography, video, html, blog platforms, social media) to create multimedia news and feature stories;
3. explain the changing role of news media and information dissemination in American society and critically evaluate elements of effective journalism;
4. exercise news judgment and apply knowledge of journalism ethics and media law to real-life newsroom situations;
5. work effectively as a productive member of a college newspaper staff; and
6. demonstrate competency in grammar, punctuation, word usage and Associated Press Style to edit stories for print or online publication.

JOURNALISM - COMPLETE 21.0 UNITS

JOUR 1	Introduction to Journalism	3.0
JOUR 1L	Introduction to Journalism Lab	0.5
JOUR 2	News Gathering and News Writing	3.0
JOUR 2L		

News Gathering and News Writing Lab	0.5	
JOUR 52A	Newspaper Practice 1	5.0
JOUR 55	Multimedia Reporting	3.0

Complete any combination totaling at least 6.0 units from the following:

COMM 1	Introduction to Public Speaking	3.0
COMM 3	Introduction to Argumentation	3.0
CS 74.11	Introduction to Digital Media	3.0
ENGL 4A	Beginning Creative Writing	3.0
JOUR 52B	News Media Practice 2	5.0
JOUR 52C	News Media Practice 3	5.0
JOUR 54A	Magazine Journalism: Writing and Production 1	3.0
JOUR 54B	Magazine Journalism: Writing and Production 2	3.0
JOUR 59	Photojournalism	3.0
JOUR 106	Editing for News Media	1.5
MEDIA 20	Introduction to Digital Filmmaking	4.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

You may substitute COMM 9 for COMM 3 for this major

COMM 9 Critical Thinking and Argumentation has ENGL 1A as a pre-requisite

JOUR 1 is a prerequisite/corequisite for JOUR 1L. It is recommended to take both courses concurrently. JOUR 2 is a prerequisite for JOUR 2L. It is recommended to take both courses concurrently.

JOURNALISM (AA-T)

Program of Study Code: 001064

Term Effective: Fall 2018

20.50 Units

(707) 527-4867

abelden@santarosa.edu (mailto:abelden@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Arts for Transfer in Journalism degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree. (1) Complete 60 semester units that are eligible for transfer to the California State University, including both of the following: (A) The Inter-segmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth requirements; and (B) A minimum of 20 semester units as required for the Associate in Arts for Transfer in Journalism Degree. (2) Obtain an overall minimum grade point average of 2.0 (3) Earn a grade of C or better in all courses required for the Associate in Arts for Transfer in Journalism Degree

PROGRAM STUDENT LEARNING OUTCOMES

1. Develop story ideas, conduct research and interviews, and write news and feature stories, opinion columns and critical reviews on deadline for both print and web publishing.
2. Use various media (i.e. audio, photography, video, blog platforms, social media, and web software) to create multimedia news and feature stories.
3. Explain the changing role of news media and information dissemination in American society and critically evaluate elements of effective journalism.
4. Exercise news judgment and apply knowledge of journalism ethics and media law to real-life newsroom situations.
5. Work as a productive member of a college newspaper staff. Demonstrate competency in grammar, punctuation, word usage and Associated Press Style to edit stories for print or online publication.

JOURNALISM FOR TRANSFER CORE REQUIREMENTS - COMPLETE 11.5 UNITS

JOUR 1	Introduction to Journalism	3.0
JOUR 1L	Introduction to Journalism Lab	0.5
JOUR 52A	Newspaper Practice 1	5.0
MEDIA 4	Introduction to Mass Communication	3.0

JOURNALISM FOR TRANSFER LIST A REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

JOUR 2	News Gathering and News Writing	3.0
JOUR 2L	News Gathering and News Writing Lab	0.5
JOUR 52C	News Media Practice 3	5.0
JOUR 55	Multimedia Reporting	3.0

JOURNALISM FOR TRANSFER LIST B REQUIREMENTS - COMPLETE 6.0 UNITS

Complete any combination totaling at least 6.0 units from the following:

ART 19	Elementary Photography	3.0

COMM 3	Introduction to Argumentation	3.0
COMM 10	Introduction to Communication Studies	3.0
ECON 1	Principles of Macroeconomics	3.0
ECON 2	Principles of Microeconomics	3.0
ENGL 5	Advanced Composition and Critical Thinking	3.0
PHIL 3	Critical Thinking	3.0
PHIL 4	Introduction to Symbolic Logic	3.0
POLS 1	Introduction to United States Government	3.0
POLS 2	Introduction to Comparative Government	3.0

NOTES:

JOUR 1 is a prerequisite/corequisite for JOUR 1L. It is recommended to take both courses concurrently. JOUR 2 is a prerequisite for JOUR 2L. It is recommended to take both courses concurrently.

JOURNALISM: DIGITAL (AS)

Program of Study Code: 002072

Term Effective: Fall 2018

24.00 Units

(707) 527-5767

abelden@santarosa.edu (mailto:abelden@santarosa.edu)

PROGRAM REQUIREMENTS:

The Journalism: Digital major provides students with an introduction to and skills in digital journalism and provides hands-on preparation for entry-level work in web journalism and/or an overlay of digital skills for recent journalism graduates and seasoned print journalists.

PROGRAM STUDENT LEARNING OUTCOMES

1. Develop, create, report, research and produce technically well-executed news and feature stories for the web and/or broadcast news using combinations of text, images, audio, video and social media.
2. Use new website, audio and video software systems to produce multimedia stories.
3. Write news and feature stories on print and web deadlines using foundational journalism skills such as developing story ideas, conducting research, interviewing sources, and applying proper grammar and Associated Press Style.
4. Exercise news judgment and apply knowledge of online journalism ethical, legal and content issues to real-life situations.
5. Analyze and evaluate multimedia stories for content, aesthetics and technical quality.

JOURNALISM: DIGITAL CORE REQUIREMENTS - COMPLETE 14.5 UNITS

CS 74.11	Introduction to Digital Media	3.0
JOUR 1	Introduction to Journalism	3.0
JOUR 1L	Introduction to Journalism Lab	0.5
JOUR 52A	Newspaper Practice 1	5.0
JOUR 55	Multimedia Reporting	3.0

JOURNALISM: DIGITAL ELECTIVE REQUIREMENT - COMPLETE 9.0 UNITS

Complete any combination totaling at least 9.0 units from the following:

ART 82	Beginning Digital Photography	3.0
CS 50A	Web Development 1	3.0
CS 50.32	Web and Digital Media Projects	4.0
CS 57.11	Introduction to Social Media	3.0
CS 70.11A	Adobe Photoshop 1	3.0
CS 71.11	Adobe Illustrator 1	3.0
CS 72.11A	Adobe InDesign 1	3.0
CS 74.21A	Digital Video Post Production Techniques 1	1.5
CS 74.21B	Digital Video Post-Production Techniques 2	1.5
JOUR 52B	Newspaper Practice 2	5.0
JOUR 106	Editing for News Media	1.5
MEDIA 20	Introduction to Digital Filmmaking	4.0
MEDIA 21	Intermediate Digital Filmmaking	4.0
MUSC 51A	Digital Audio 1: Fundamentals	3.0
MUSC 51B	Digital Audio 2: Multimedia	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

KINESIOLOGY (AA)

Program of Study Code: 001051

Term Effective: Fall 2019

32.50 Units

(707) 527-4457

mohkubo@santarosa.edu (mailto:mohkubo@santarosa.edu)

PROGRAM REQUIREMENTS:

The Kinesiology Associate of Arts degree provides students with the opportunity to meet the requirements for transferring to four-year colleges and universities in the areas of physical education, health and fitness, exercise science, and Kinesiology. The program in physical education outlined below is typical lower division requirements for four-year colleges and universities; some requirements vary from college to college. Students are advised to meet with a counselor for appropriate campus specific course requirements before selecting courses.

PROGRAM STUDENT LEARNING OUTCOMES

1. Understand human anatomy and physiology pertaining to the fifteen major areas/body systems;
2. understand the health, fitness, and basic nutritional aspects of physical education;
3. identify the psychological aspects and dynamics of individual and team sports;
4. transfer to university level programs with a comprehensive foundation in physical education courses; and
5. successfully compete academically with 4 year university students in their major.

KINESIOLOGY PREREQUISITES - COMPLETE 9.0 UNITS

BIO 10	Introduction to Principles of Biology	4.0

Complete any combination totaling at least 5.0 units from the following:

CHEM 1A	General Chemistry	5.0
CHEM 60	General, Organic and Biological Chemistry	5.0

KINESIOLOGY CORE - COMPLETE 13.5 UNITS

ANAT 1	General Human Anatomy	5.0
HLE 6	Standard First Aid, CPR, and AED	0.5
KINES 1	Introduction to Kinesiology	3.0
PHYSIO 1	Human Physiology	5.0

KINESIOLOGY THEORY - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ATHL 11L	Baseball Laboratory	3.0
ATHL 15L	Basketball Lab	1.0
ATHL 16	Techniques & Theory of Basketball	2.0
ATHL 17L	Cross Country Lab	1.5
ATHL 22.1L	Defensive Football Laboratory	1.5
ATHL 22.2L	Offensive Football Laboratory	1.5
ATHL 29L	Soccer Lab	1.5
ATHL 30	Theory and Analysis of Soccer	1.5
ATHL 31L	Softball Lab	1.5
ATHL 45L	Volleyball Lab	1.5
FDNT 10	Elementary Nutrition	3.0
KINES 59	Psychological Aspects of Sport Performance	3.0
MATH 15	Elementary Statistics	4.0

KINESIOLOGY COACHING/FITNESS/TEACHER - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

FDNT 10	Elementary Nutrition	3.0
HLE 5	Personal Health and Wellness	3.0
KINES 2	Sports Officiating Fall	3.0
KINES 3	Sports Officiating Spring	3.0
KINES 4	Introduction to Sports Medicine	3.0
KINES 55	Introduction to Coaching Team Sports	3.0
KINES 62A	Sports Medicine Experience A	2.0
KINES 62B	Sports Medicine Experience B	2.0
KINES 62C	Sports Medicine Experience C	2.0
KINES 62D	Sports Medicine Experience D	2.0
PSYCH 1A	General Psychology	3.0
SOC 1	Introduction to Sociology	3.0

KINESIOLOGY TEAM OR INDIVIDUAL ELECTIVE REQUIREMENT - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ATHL 1	Intercollegiate Physical Fitness	2.0
ATHL 8	Varsity Wrestling	3.0
ATHL 9	Women's Varsity Water Polo	3.0
ATHL 10	Men's Varsity Water Polo	3.0
ATHL 11	Men's Varsity Baseball	3.0
ATHL 13	Men's Varsity Basketball	1.5
ATHL 14	Women's Varsity Basketball	1.5
ATHL 17	Men's Varsity Cross Country	3.0
ATHL 18	Women's Varsity Cross Country	3.0
ATHL 21	Varsity Football	3.0
ATHL 24	Varsity Golf	3.0
ATHL 27	Men's Varsity Soccer	3.0
ATHL 28	Women's Varsity Soccer	3.0
ATHL 31	Women's Varsity Softball	3.0
ATHL 33	Men's Varsity Swimming and Diving	3.0
ATHL 34	Women's Varsity Swimming and Diving	3.0
ATHL 37	Men's Varsity Tennis	3.0
ATHL 38	Women's Varsity Tennis	3.0
ATHL 41	Men's Varsity Track and Field	3.0
ATHL 42	Women's Varsity Track and Field	3.0
ATHL 45	Women's Varsity Volleyball	3.0
KAQUA 1.1	Beginning Swimming	2.0
KAQUA 1.2	Intermediate Swimming	2.0
KAQUA 1.3	Advanced Swimming	2.0
KAQUA 1.4		

Training for the Competitive Swimmer		2.0
KAQUA 2.1	Aquatic Fitness	2.0
KAQUA 2.3	Advanced Aquatic Fitness	1.5
KAQUA 3.1	Aquatic Calisthenics	2.0
KAQUA 4.1	Deep Water Running	2.0
KAQUA 10.1	Springboard Diving	2.0
KAQUA 12.1	Beginning Water Polo	1.5
KAQUA 12.2	Intermediate Water Polo	1.5
KAQUA 12.3	Training for Competitive Water Polo	1.5
KAQUA 21	Lifeguard Training	2.0
KCOMB 1.1	Tai Chi - Chen Style	1.5
KCOMB 2.1	Beginning Judo	1.0
KCOMB 2.2	Intermediate Judo	1.0
KCOMB 2.3	Advanced Judo	1.0
KCOMB 3.1	Beginning Karate	1.5
KCOMB 3.2	Intermediate Karate	1.5
KCOMB 4.1	Beginning Boxing	1.5
KCOMB 4.2	Intermediate Boxing	1.5
KFIT 1.1	Beginning Aerobic Dance	1.5
KFIT 1.2	Intermediate Aerobic Dance	1.5
KFIT 2.1	Beginning Step Aerobics	1.5
KFIT 2.2	Intermediate Step Aerobics	1.5
KFIT 3.1	Beginning Body Conditioning	1.5
KFIT 3.2	Intermediate Body Conditioning	1.5
KFIT 3.3	Advanced Body Conditioning	1.5
KFIT 4.1	Body Mechanics	1.5
KFIT 5.1	Beginning Pilates Mat	1.5
KFIT 6.1	Beginning Yoga	1.5
KFIT 7.1	Beginning Circuit Training	1.5
KFIT 8.1	Beginning Weight Lifting	1.5
KFIT 15.1	Personal Fitness Activities	1.5
KINDV 1.1	Beginning Wrestling	1.5
KINDV 2.1	Beginning Badminton	1.5
KINDV 2.2	Intermediate Badminton	1.5
KINDV 2.3	Advanced Badminton	1.5
KINDV 3.1	Beginning Golf	1.5
KINDV 3.2	Intermediate Golf	1.5
KINDV 3.3	Advanced Golf	1.0
KINDV 4.1	Beginning Tennis	1.5
KINDV 4.2	Intermediate Tennis	1.5
KINDV 4.3	Advanced Tennis	1.5
KINDV 5.1	Beginning Track and Field	1.0
KINDV 5.2	Intermediate Track and Field	1.0
KINDV 5.3	Advanced Track and Field	1.5

KINES 49	Independent Study in Kinesiology, Athletics and/or Dance	3.0
KINES 55	Coaching Sports	3.0
KTEAM 1.1	Football Passing Game	1.0
KTEAM 2.1	Touch Football	1.0
KTEAM 3.1	Beginning Baseball	1.0
KTEAM 3.2	Intermediate Baseball	1.5
KTEAM 3.3	Advanced Baseball	1.5
KTEAM 4.1	Beginning Basketball	1.5
KTEAM 4.2	Intermediate Basketball	1.5
KTEAM 4.3	Advanced Basketball	1.5
KTEAM 5.1	Softball	1.0
KTEAM 6.1	Beginning Soccer	1.5
KTEAM 6.2	Intermediate Soccer	1.5
KTEAM 6.3	Advanced Soccer	1.5
KTEAM 7.1	Indoor Soccer	1.5
KTEAM 8.1	Beginning Volleyball	1.5
KTEAM 8.2	Intermediate Volleyball	1.5
KTEAM 8.3	Advanced Volleyball	1.5
KTEAM 9.1	Beginning Outdoor Volleyball	1.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

No course may be used more than once to fulfill a requirement in the major.

KINESIOLOGY (AA-T)

Program of Study Code: 002068

Term Effective: Fall 2018

24.00 Units

(707) 527-4237

lwagner@santarosa.edu (mailto:lwagner@santarosa.edu)

PROGRAM REQUIREMENTS:

The Kinesiology Associate in Arts for Transfer degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors

or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree. Completion of 60 semester or 90 quarter CSU-transferable units that include: A minimum of 25-27.5 semester units as required for the Associates in Arts for Transfer in Kinesiology, and The Intersegmental General Education Transfer Curriculum (IGETC) pattern of 37 units. Obtainment of a minimum grade point average (GPA) of 2.0 and earn a grade of "C" or better in all courses required for the major. IMPORTANT NOTE FOR STUDENTS: Under the Core Requirement Section Students are required to take 3 Movement-based Courses for a minimum of 3 units, choosing a maximum of 1 course from any 3 of the following areas: KAQUA, KCOMB, DANCE, KFIT, KINDV or KTEAM.

KINESIOLOGY FOR TRANSFER CORE REQUIREMENTS - COMPLETE 16.0 UNITS

KINES 1	Introduction to Kinesiology	3.0
ANAT 1	General Human Anatomy	5.0
PHYSIO 1	Human Physiology	5.0

Complete any combination totaling at least 3.0 units from the following:

Movement-Based Courses

Select one course maximum from

three of the following areas:

Area 1: Aquatics

KAQUA 1.1	Beginning Swimming	1.5
KAQUA 2.1	Aquatic Fitness	1.5
KAQUA 2.3	Advanced Aquatic Fitness	1.5
KAQUA 3.1	Beginning Aquatic Calisthenics	1.5

Area 2: Combatives

KCOMB 1.1	Tai Chi Chen Style	1.5
KCOMB 2.1	Beginning Judo	1.0
KCOMB 2.2	Intermediate Judo	1.0
KCOMB 2.3	Advanced Judo	1.0
KCOMB 3.1	Beginning Karate	1.5
KCOMB 3.2	Intermediate Karate	1.5
KCOMB 4.1	Beginning Boxing	1.5
KCOMB 5.1	Beginning Foil Fencing	1.5
KCOMB 6.1	Beginning Sabre Fencing	1.5

Area 3: Dance

DANCE 37.1	Ballroom Dance I	1.0
DANCE 40	Introduction to Folk Dance	1.0

Area 4: Fitness

KFIT 1.1	Beginning Aerobic Dance	1.5
KFIT 1.2	Intermediate Aerobic Dance	1.5
KFIT 3.1	Beginning Body Conditioning	1.5
KFIT 3.2	Intermediate Body Conditioning	1.5

KFIT 3.3	Advanced Body Conditioning	1.5
KFIT 5.1	Beginning Pilates Mat	1.5
KFIT 5.2	Intermediate Pilates Mat	1.5
KFIT 6.1	Beginning Yoga	1.5
KFIT 7.1	Beginning Circuit Training	1.5

Area 5: Individual Sports

KINDV 1.1	Beginning Wrestling	1.5
KINDV 1.3	Advanced Wrestling	1.5
KINDV 2.1	Beginning Badminton	1.5
KINDV 2.2	Intermediate Badminton	1.5
KINDV 2.3	Advanced Badminton	1.5
KINDV 3.1	Beginning Golf	1.5
KINDV 3.2	Intermediate Golf	1.5
KINDV 3.3	Advanced Golf	1.0
KINDV 5.1	Beginning Track and Field	1.0
KINDV 5.2	Intermediate Track and Field	1.0
KINDV 5.3	Advanced Track and Field	1.5

Area 6: Team Sports

KTEAM 2.1	Touch Football	1.0
KTEAM 4.1	Beginning Basketball	1.5
KTEAM 4.2	Intermediate Basketball	1.5
KTEAM 5.1	Softball	1.0
KTEAM 6.1	Beginning Soccer	1.5
KTEAM 6.2	Intermediate Soccer	1.5
KTEAM 8.1	Beginning Volleyball	1.5
KTEAM 8.2	Intermediate Volleyball	1.5
KTEAM 8.3	Advanced Volleyball	1.5
KTEAM 9.1	Beginning Outdoor Volleyball	1.0

KINESIOLOGY FOR TRANSFER LIST A REQUIREMENT - COMPLETE 8.0 UNITS

Complete any combination totaling at least 8.0 units from the following:

MATH 15	Elementary Statistics	4.0
CHEM 1A	General Chemistry	5.0

Select PHYS 20/L or PHYS 40

PHYS 20	General Physics Lecture Part I	3.0

And

PHYS 20L	General Physics Lab Part I	1.0

or

OR

PHYS 40	Classical Mechanics for Scientists and Engineers	5.0

NOTES:

IMPORTANT NOTES FOR STUDENTS:

1. Under the Core Requirement Section Students are required to take 3 Movement-based Courses for a minimum of 3 units, choosing a maximum of 1 course from any 3 of the following areas: KAQUA, KCOMB, DANCE, KFIT, KINDV or KTEAM.

2. Under the List A Requirement Section Students are required to complete courses in 2 out of the following 3 disciplines: Chemistry (take CHEM 1A or CHEM 4A); Physics (take PHYS 40 or PHYS 20 plus PHYS 20L); OR Mathematics (take MATH 15).

KINESIOLOGY: SPORTS MEDICINE PREPARATION (AA)

Program of Study Code: 001057

Term Effective: Fall 2019

33.00 Units

(707) 527-4457

mohkubo@santarosa.edu (mailto:mohkubo@santarosa.edu)

PROGRAM REQUIREMENTS:

The Kinesiology: Sports Medicine Preparation Associate of Arts degree provides students with the opportunity to meet the requirements for transfer to various allied health and kinesiology majors. The major is intended for students who are pursuing academic programs and/or careers in fields of kinesiology or medicine such as athletic training, physical therapy, strength & conditioning, physical education, physician assistant, occupational therapy, adapted physical education, and chiropractic.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate an understanding of the sports medicine profession, including history, educational preparation and role of the practitioner and various members of the sports medicine team;
2. describe, integrate and apply concepts of prevention, immediate care, evaluation, treatment, rehabilitation and reconditioning of athletic injuries and injuries to the physically active; and
3. demonstrate effective communication, professionalism, legal and ethical understanding, and general organization and administration within a sports medicine setting.

KINESIOLOGY: SPORTS MEDICINE PREPARATION - COMPLETE 32.0 UNITS

ANAT 1	General Human Anatomy	5.0
BIO 10	Introduction to Principles of Biology	4.0
KINES 4	Introduction to Sports Medicine	3.0
PHYSIO 1	Human Physiology	5.0
KINES 62A	Sports Medicine Experience A	2.0
KINES 62B	Sports Medicine Experience B	2.0

KINES 63	Sports Medicine: Lower Body Injuries	3.0
KINES 64	Sports Medicine: Upper Body Injuries	3.0

Complete any combination totaling at least 5.0 units from the following:

CHEM 1A	General Chemistry	5.0
CHEM 60	General, Organic and Biological Chemistry	5.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

The one unit of LIR 10 also satisfies the Area I, Option A General Education (G.E.) requirement.

If the Math graduation requirement has not been satisfied within the G.E. units, it is a separate and additional requirement.

Transfer students are strongly encouraged to complete G.E. option B or C.

LATIN AMERICAN STUDIES (AA)

Program of Study Code: 001020

Term Effective: Fall 2019

18.00 Units

(707) 521-6905

mbond@santarosa.edu (mailto:mbond@santarosa.edu)

PROGRAM REQUIREMENTS:

The Latin American Studies major gives students a broad, interdisciplinary introduction to the study of Latin America, including languages, cultures, history, and social structure. The program prepares students for transfer in the fields of Latin American Studies, or provides a foundation for lifelong learning.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate beginning level Spanish language skills with the ability to read and communicate basic ideas and concepts in Spanish;
2. analyze and critique the interaction between the dominant Spanish culture and the cultures it encountered in Latin America and the Caribbean;
3. analyze works of visual art, film, drama, music, literature, philosophy, and religion from culturally diverse groups within Latin America and the Caribbean in their historical and cultural context; and
4. utilize appropriate library and online resource to research topics relevant to Latin America and the Caribbean.

LATIN AMERICAN STUDIES MAJOR REQUIREMENTS - COMPLETE 18.0 UNITS

INTDIS 4	Culture & Values in Latin America & the Caribbean	3.0
SPAN 1	Elementary Spanish-Part 1	4.0
SPAN 2	Elementary Spanish-Part 2	4.0

Complete any combination totaling at least 3.0 units from the following:

ANTHRO 2	Cultural Anthropology	3.0
ANTHRO 30	Anthropology of Globalization	3.0
GEOG 7	Introduction to Human Geography	3.0

Complete any combination totaling at least 4.0 units from the following:

ANTHRO 2	Cultural Anthropology	3.0
ANTHRO 30	Anthropology of Globalization	3.0
ANTHRO 31	Mesoamerican Origins of Latino Culture	3.0
ECON 1	Principles of Macroeconomics	3.0
ENGL 33	Chicano/Chicana Arts and Literature	3.0
GEOG 7	Introduction to Human Geography	3.0
HIST 8.1	History of Latin America from Pre-Columbian to 1830	3.0
HIST 8.2	History of Latin America from 1830 to Present	3.0
HIST 33	History of Mexico	3.0
LIR 10	Introduction to Information Literacy	1.0
POLS 2	Introduction to Comparative Government	3.0
SOC 1	Introduction to Sociology	3.0
SOC 30	Race and Ethnic Relations	3.0
SPAN 3	Intermediate Spanish-Part One	4.0
SPAN 4	Intermediate Spanish-Part 2	4.0
SPAN 40	Introductory Spanish for Spanish Speakers	4.0
SPAN 41	Intermediate Spanish for Spanish Speakers	4.0

PROGRAM REQUIREMENTS NOTES:

Note: No course may be used more than once to fulfill a requirement in the major.

MACHINE TOOL TECHNOLOGY (AS)

Program of Study Code: 002015

Term Effective: Fall 2019

25.00 Units

(707) 527-4488

wmccracken@santarosa.edu (mailto:wmccracken@santarosa.edu)

PROGRAM REQUIREMENTS:

The Machine Tool Technology major offers both theoretical and hands-on training related to lathes, vertical mills, drill press, hand tools, Computer Numeric Control (CNC) lathes and mills, and Computer Aided Machining (CAM).

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate safe operation of hand tools, power tools and specialized machine shop tools and equipment;
2. demonstrate the set up and operation of manual lathes and mills;
3. interpret CNC (Computer Numeric Control) programming language;
4. accurately analyze and interpret blueprints and create part(s) to specifications;
5. interpret blueprints and GD&T (Geometric Dimensioning & Tolerancing) symbols in order to verify dimensions of a machine part; and
6. describe applications of design, manufacturing, and fabrication applicable to non-ferrous metals.

MACHINE TOOL TECHNOLOGY REQUIREMENTS - COMPLETE 24.0 UNITS

APTECH 45	Basic Drafting Skills	1.5
APTECH 46	Introduction to Computer-Aided Drafting	2.0
IED 190	Industrial Mathematics	1.5
MACH 51A	Beginning Machine Tool Technology	2.0
MACH 51B	Advanced Machine Tool Technology	2.0
MACH 80A	Introduction to Computer Numeric Control Lathe	5.0
MACH 80B	Introduction to Computer Numeric Control Mill	5.0
MACH 161	Metallurgy	3.0
WELD 170	Beginning Welding: Fundamentals of Arc and Gas Welding	2.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

MATHEMATICS (AA)

Program of Study Code: 001011

Term Effective: Spring 2013

20.00 Units

(707) 527-4747

mferguson@santarosa.edu (mailto:mferguson@santarosa.edu)

PROGRAM REQUIREMENTS:

The Mathematics major is designed to help guide the student seeking a bachelor's degree in mathematics to fulfill the lower division requirements for that degree.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate the ability to use symbolic, graphical, and numerical representations of mathematical ideas and to communicate mathematical results in a clear, organized and contextually accurate manner;
2. perform advanced operations with functions of one or more variables, including algebraic, transcendental, and vector-valued; understand the characteristics and graphs of functions; and apply this knowledge to modeling problems;
3. apply mathematical techniques including solving equations and inequalities, solving systems of equations and inequalities, differentiation, and integration, to problems that arise in the real world;
4. use and apply conic sections, polar graphs, parametric equations, vectors, complex numbers, sequences, and series; and
5. engage in logical and critical thinking in mathematics.

MATHEMATICS MAJOR REQUIREMENTS - COMPLETE 20.0 UNITS

MATH 1A	Calculus, First Course	5.0
MATH 1B	Calculus, Second Course	5.0
MATH 1C	Calculus, Third Course	4.0
MATH 5	Introduction to Linear Algebra	3.0

Complete any combination totaling at least 3.0 units from the following:

MATH 2	Calculus, Fourth Course-Differential Equations	3.0
MATH 4	Discrete Mathematics	4.0
MATH 6	An Introduction to Higher Mathematics	4.0

MATHEMATICS (AS-T)

Program of Study Code: 002067

Term Effective: Fall 2017

21.00 Units

(707) 527-4789

bdovan@santarosa.edu (mailto:bdovan@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Science for Transfer in Mathematics is designed to guide the student seeking a bachelor's degree in Mathematics to fulfill the lower division requirements for that degree. This associate degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AS-T are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree. (1) Complete 60 semester units that are eligible for transfer to the California State University, including both of the following: (A) The Inter-segmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth requirements; and (B) A minimum of 20-21 semester units as required for the Associate in Science for Transfer Degree in Mathematics major. (2) Obtain an overall minimum grade point average of 2.0 (3) Earn a grade of "C" or better in all courses required for the Associate in Science for Transfer Degree in Mathematics major.

PROGRAM STUDENT LEARNING OUTCOMES

1. Use calculus to solve problems
2. Use multivariate calculus to solve problems
3. Use mathematics to model physical and sociological phenomena

MATHEMATICS FOR TRANSFER CORE REQUIREMENTS - COMPLETE 14.0 UNITS

MATH 1A	Calculus, First Course	5.0
MATH 1B	Calculus, Second Course	5.0
MATH 1C	Calculus, Third Course	4.0

MATHEMATICS FOR TRANSFER LIST A REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

MATH 2	Calculus, Fourth Course-Differential Equations	3.0
MATH 5	Introduction to Linear Algebra	3.0

MATHEMATICS FOR TRANSFER LIST B REQUIREMENTS - COMPLETE 4.0 UNITS

Complete any combination totaling at least 4.0 units from the following:

CS 10	Introduction to Computer Programming	4.0
MATH 4	Discrete Mathematics	4.0
MATH 6		

An Introduction to Higher Mathematics		4.0

MEDICAL ASSISTING: ADMINISTRATIVE (AS)

Program of Study Code: 002040

Term Effective: Fall 2017

29.50 Units

(707) 527-4272

guser58@santarosa.edu (mailto:guser58@santarosa.edu)

PROGRAM REQUIREMENTS:

The Medical Assisting: Administrative major prepares students for work in physicians' offices, medical clinics, hospital outpatient clinics, health agencies, and educational institutions. This major provides training in administrative (front office) skills.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate ability to greet patients, answer telephones, schedule appointments, maintain and filing client medical records, complete insurance forms, arrange hospital admissions and laboratory services, handle billing, bookkeeping, and physician correspondence; and
2. demonstrate means of helping to maintain a neat, clean waiting room and front office.

MEDICAL ASSISTING CORE REQUIREMENTS - COMPLETE 20.5 UNITS

CS 60.11A	Microsoft Word, Part 1	1.5
HLC 160	Medical Terminology	3.0
MA 160	Introduction to Medical Office Practice	3.0
MA 161	Law and Ethics for Medical Assistants	1.0
MA 162	Disease Processes	4.0
MA 171	Electronic Health Records in the Medical Office Setting	2.0
PSYCH 1A	General Psychology	3.0

Complete any combination totaling at least 3.0 units from the following:

ANAT 58	Introduction to Human Anatomy	3.0
ANAT 140	Fundamentals of Anatomy and Physiology	2.0
And		
HLC 140	Health Care Implications of Anatomy and Physiology	1.0

MEDICAL ASSISTING: ADMINISTRATIVE REQUIREMENTS - COMPLETE 8.0 UNITS

MA 166.1	Externship: Medical Assisting	3.5
MA 167	Basic Diagnostic Coding	1.5
MA 168	Basic Medical Office Insurance Billing	1.5
MA 169	Procedural Coding	1.5

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

All courses taken in conjunction with this program must be completed with a letter grade of 'C' or better.

MEDICAL ASSISTING: ADMINISTRATIVE AND CLINICAL (AS)

Program of Study Code: 002041

Term Effective: Fall 2019

35.00 Units

(707) 527-4272

guser58@santarosa.edu (mailto:guser58@santarosa.edu)

PROGRAM REQUIREMENTS:

The Medical Assisting: Administrative and Clinical major prepares students for work in physicians' offices, medical clinics, hospital outpatient clinics, health agencies, and educational institutions. Students completing the program will be eligible to . sit for the California Certifying Board for Medical Assistants (CCBMA) exam. This program provides training in both administrative (front office) and clinical (back office) skills.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate ability to greet patients, answer telephones, schedule appointments, maintain and filing client medical records, complete insurance forms, arrange hospital admissions and laboratory services, handle billing, bookkeeping, and physician correspondence;
2. demonstrate ability to perform clinical tasks such as taking and recording vital signs and medical histories, explaining treatment procedures to clients, preparing clients for examinations, and assisting during examinations;
3. collect and prepare laboratory specimens and perform basic laboratory tests on the premises, dispose of contaminated supplies, and sterilize medical instruments;
4. present in an instructional manner information about medication and special diets;
5. demonstrate ability to perform other clinical tasks such as preparing and administering medications as directed by a physician, authorizing drug refills as directed, telephoning prescriptions to a pharmacy, preparing clients for x-

rays, taking EKG's, removing sutures and changing dressings; and

6. arrange examining room instruments and equipment, purchase and maintain supplies and equipment, and keep waiting and examining rooms neat and clean.

MEDICAL ASSISTING CORE REQUIREMENTS - COMPLETE 16.5 UNITS

HLC 160	Medical Terminology	3.0
LIR 10	Introduction to Information Literacy	1.0
MA 160	Introduction to Medical Office Practice	3.0
MA 161	Law and Ethics for Medical Assistants	1.0
MA 162	Disease Processes	4.0
MA 168	Basic Medical Office Insurance Billing	1.5

Complete any combination totaling at least 3.0 units from the following:

ANAT 58	Introduction to Human Anatomy	3.0
ANAT 140	Fundamentals of Anatomy and Physiology	2.0
And		
HLC 140	Health Care Implications of Anatomy and Physiology	1.0

MEDICAL ASSISTING: ADMINISTRATIVE AND CLINICAL - COMPLETE 18.5 UNITS

MA 163	Basic Clinical Skills for Medical Assisting	3.0
MA 163L	Beginning Externship	1.5
MA 164	Laboratory Techniques	2.0
MA 165	Pharmacology & Administration of Medications	3.0
MA 167	Basic Diagnostic Coding	1.5
MA 169	Procedural Coding	1.5
MA 174	Intermediate Clinical Skills for Medical Assisting	4.0
MA 176	Intermediate Externship	2.0

NOTES:

All courses taken in conjunction with this program must be completed with a letter grade of 'C' or better.

MEDICAL ASSISTING: CLINICAL (AS)

Program of Study Code: 002042

Term Effective: Fall 2017

38.50 Units

(707) 527-4272

guser58@santarosa.edu (mailto:guser58@santarosa.edu)

PROGRAM REQUIREMENTS:

The Medical Assisting: Clinical major prepares students for work in physicians' offices, medical clinics, hospital outpatient clinics, health agencies, and educational institutions. Students completing the program will be eligible to take the California Examination for Certified Medical Assistants. This program provides training in clinical (back office) skills.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate ability to perform clinical tasks such as taking and recording vital signs and medical histories, explaining treatment procedures to clients, preparing clients for examinations, and assisting during examinations;
2. collect and prepare laboratory specimens and perform basic laboratory tests on the premises, dispose of contaminated supplies, and sterilize medical instruments;
3. present in an instructional manner information about medication and special diets;
4. demonstrate ability to perform other clinical tasks such as preparing and administering medications as directed by a physician, authorizing drug refills as directed, telephoning prescriptions to a pharmacy, drawing blood, preparing clients for x-rays, taking EKG's, removing sutures and changing dressings; and
5. arrange examining room instruments and equipment, purchase and maintain supplies and equipment, and keep waiting and examining rooms neat and clean.

MEDICAL ASSISTING CORE REQUIREMENTS - COMPLETE 20.5 UNITS

CS 60.11A	Microsoft Word, Part 1	1.5
HLC 160	Medical Terminology	3.0
MA 160	Introduction to Medical Office Practice	3.0
MA 161	Law and Ethics for Medical Assistants	1.0
MA 162	Disease Processes	4.0
MA 171	Electronic Health Records in the Medical Office Setting	2.0
PSYCH 1A	General Psychology	3.0

Complete any combination totaling at least 3.0 units from the following:

ANAT 58	Introduction to Human Anatomy	3.0
ANAT 140	Fundamentals of Anatomy and Physiology	2.0

And

HLC 140	Health Care Implications of Anatomy and Physiology	1.0

MEDICAL ASSISTING: CLINICAL REQUIREMENTS - COMPLETE 17.0 UNITS

MA 163	Basic Clinical Skills for Medical Assisting	3.0

MA 163L	Clinical Internship	2.0
MA 164	Theories of the Clinical Laboratory	2.0
MA 165	Pharmacology and Administration of Medications	3.0
MA 174	Intermediate Clinical Skills for Medical Assisting	4.0
MA 176	Clinical Externship	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

Students who are on a "fast track" and are interested in completing the program more quickly, are encouraged to take HLC 160 in the summer.

All courses taken in conjunction with this program must be completed with a letter grade of 'C' or better.

MUSIC: INSTRUMENTAL (AA)

Program of Study Code: 001045

Term Effective: Fall 2016

50.00 Units

(707) 527-4330

manderman@santarosa.edu (mailto:manderman@santarosa.edu)

PROGRAM REQUIREMENTS:

The Music major provides students with the opportunity to earn an Associate in Arts in Music while meeting the typical lower division requirements for a bachelor's degree in Music at a four-year institution. The major is also designed to prepare students for careers in music performance, composition, publishing, education, and other specializations in the music industry.

PROGRAM STUDENT LEARNING OUTCOMES

1. (through music theory) demonstrate an understanding of the fundamental melodic, harmonic, and rhythmic structure of music;
2. (through musicianship) demonstrate fluency with the language of music in written and aural form;
3. (through applied music) perform on their instrument (or voice) at college sophomore level;
4. (through their major performing ensemble) perform effectively in a musical ensemble;
5. (through piano proficiency) utilize the piano keyboard to demonstrate and apply musical concepts; and
6. (through music history) demonstrate a broad-based understanding of the historical and aesthetic development of music.

MUSIC: INSTRUMENTAL CORE REQUIREMENTS - COMPLETE 27.0 UNITS

MUSC 2A	Music Theory 1	3.0
MUSC 2B	Music Theory 2	3.0
MUSC 2C	Music Theory 3	3.0
MUSC 2D	Music Theory 4	3.0
MUSC 3A	Musicianship 1	2.0
MUSC 3B	Musicianship 2	2.0
MUSC 3C	Musicianship 3	2.0
MUSC 3D	Musicianship 4	2.0

Complete any combination totaling at least 3.0 units from the following:

MUSC 6.1	Music History and Literature: Antiquity to 1750	3.0
MUSC 6.2	Music History and Literature: 1750-Present	3.0

Complete any combination totaling at least 4.0 units from the following:

MUSCP 11A	Class Piano 1	2.0
MUSCP 11B	Class Piano 2	2.0
MUSCP 11C	Class Piano 3	2.0
MUSCP 11D	Class Piano 4	2.0

MUSIC: INSTRUMENTAL PERFORMANCE REQUIREMENTS - COMPLETE 10.0 UNITS

Complete any combination totaling at least 10.0 units from the following:

MUSCP 21A	Concert Choir	2.5
MUSCP 21B	Concert Choir	2.5
MUSCP 21C	Concert Choir	2.5
MUSCP 21D	Concert Choir	2.5
MUSCP 30A	Symphonic Band	2.5
MUSCP 30B	Symphonic Band	2.5
MUSCP 30C	Symphonic Band	2.5
MUSCP 30D	Symphonic Band	2.5
MUSCP 33A	Orchestra	2.5
MUSCP 33B	Orchestra	2.5
MUSCP 33C	Orchestra	2.5
MUSCP 33D	Orchestra	2.5

MUSIC: INSTRUMENTAL APPLIED MUSIC REQUIREMENTS - COMPLETE 10.0 UNITS

Complete any combination totaling at least 10.0 units from the following:

MUSCP 40.1	Applied Music (Individual Instruction): Piano	2.5
MUSCP 40.3	Applied Music (Individual Instruction): Strings	2.5
MUSCP 40.4		

Applied Music (Individual Instruction): Woodwind		2.5
MUSCP 40.5	Applied Music (Individual Instruction): Brass	2.5
MUSCP 40.6	Applied Music (Individual Instruction): Percussion	2.5
MUSCP 40.7	Applied Music (Individual Instruction): Guitar	2.5

MUSIC ELECTIVES - COMPLETE 2.0 UNITS

Complete any combination totaling at least 2.0 units from the following:

MUSC 4A	Jazz, Rock, and Pop Theory 1	3.0
MUSC 4B	Jazz, Rock, and Pop Theory 2	3.0
MUSC 5A	Jazz Improvisation 1	3.0
MUSC 5B	Jazz Improvisation 2	3.0
MUSC 5C	Jazz Improvisation 3	3.0
MUSC 5D	Jazz Improvisation 4	3.0
MUSC 50	Introduction to MIDI	3.0
MUSCP 17A	Elementary Voice	2.0
MUSCP 17B	Intermediate Voice	2.0
MUSCP 19A	Beginning Guitar	2.0
MUSCP 19B	Intermediate Guitar	2.0
MUSCP19.1A	Classical Guitar 1	2.0
MUSCP19.1B	Classical Guitar 2	2.0
MUSCP 23A	Chamber Singers 1	2.5
MUSCP 23B	Chamber Singers 2	2.5
MUSCP 23C	Chamber Singers 3	2.5
MUSCP 23D	Chamber Singers 4	2.5
MUSCP 24A	Vocal Jazz Ensemble 1	2.5
MUSCP 24B	Vocal Jazz Ensemble 2	2.5
MUSCP 24C	Vocal Jazz Ensemble 3	2.5
MUSCP 24D	Vocal Jazz Ensemble 4	2.5
MUSCP 32A	Jazz Band 1	4.0
MUSCP 32B	Jazz Band 2	4.0
MUSCP 32C	Jazz Band 3	4.0
MUSCP 32D	Jazz Band 4	4.0
MUSCP 42A	Jazz Combo Ensemble 1	2.5
MUSCP 42B	Jazz Combo Ensemble 2	2.5
MUSCP 42C	Jazz Combo Ensemble 3	2.5
MUSCP 42D	Jazz Combo Ensemble 4	2.5

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

PROGRAM REQUIREMENTS NOTES:

All music majors must complete a minimum of FOUR SEMESTERS of both Applied Music (MUSCP 40.x) and a major performance ensemble (see list above).

NOTES:

Incoming Music Majors should have prior experience performing on an instrument and be able to read music. Students who lack these basic skills are advised to take one or more of the following:

- MUSC 1 Music Fundamentals

MUSIC: JAZZ STUDIES (AA)

Program of Study Code: 001048

Term Effective: Fall 2017

58.00 Units

(707) 527-4330

manderman@santarosa.edu (mailto:manderman@santarosa.edu)

PROGRAM REQUIREMENTS:

The Music Jazz Studies major provides students with the opportunity to earn an Associate in Arts in Music while meeting the typical lower division requirements for a bachelor's degree in Jazz Studies at a four-year institution. The major is also designed to prepare students for careers in music performance, composition, publishing, education, and other specializations in the music industry.

PROGRAM STUDENT LEARNING OUTCOMES

1. (through music theory) demonstrate an understanding of the fundamental melodic, harmonic, and rhythmic structure of music;
2. (through musicianship) demonstrate fluency with the language of music in written and aural form;
3. (through applied music) perform on their instrument (or voice) at college sophomore level;
4. (through their major performing ensemble) perform effectively in a musical ensemble;
5. (through piano proficiency) utilize the piano keyboard to demonstrate and apply musical concepts;
6. (through music history) demonstrate a broad-based understanding of the historical and aesthetic development of music; and
7. (through jazz improvisation) improvise on standard jazz repertoire.

MUSIC: JAZZ STUDIES CORE REQUIREMENTS - COMPLETE 35.0 UNITS

MUSC 2A	Introduction to Music Theory	3.0
MUSC 2B	Diatonic Harmony	3.0
MUSC 3A	Musicianship 1	2.0
MUSC 3B	Musicianship 2	2.0
MUSC 4A	Jazz, Rock, and Pop Theory 1	3.0
MUSC 4B	Jazz, Rock, and Pop Theory 2	3.0
MUSC 9	Jazz Appreciation	3.0

MUSC 15	Standards Repertoire for the Jazz Musician	3.0

Complete any combination totaling at least 9.0 units from the following:

MUSC 5A	Jazz Improvisation 1	3.0
MUSC 5B	Jazz Improvisation 2	3.0
MUSC 5C	Jazz Improvisation 3	3.0
MUSC 5D	Jazz Improvisation 4	3.0

Complete any combination totaling at least 4.0 units from the following:

MUSCP 11A	Class Piano 1	2.0
MUSCP 11B	Class Piano 2	2.0
MUSCP 11C	Class Piano 3	2.0
MUSCP 11D	Class Piano 4	2.0

MUSIC: JAZZ STUDIES APPLIED MUSIC REQUIREMENTS - COMPLETE 10.0 UNITS

Complete any combination totaling at least 10.0 units from the following:

MUSCP 40.1	Applied Music (Individual Instruction): Piano	2.5
MUSCP 40.2	Applied Music (Individual Instruction): Voice	2.5
MUSCP 40.3	Applied Music (Individual Instruction): Strings	2.5
MUSCP 40.4	Applied Music (Individual Instruction): Woodwind	2.5
MUSCP 40.5	Applied Music (Individual Instruction): Brass	2.5
MUSCP 40.6	Applied Music (Individual Instruction): Percussion	2.5
MUSCP 40.7	Applied Music (Individual Instruction): Guitar	2.5

MUSIC: JAZZ STUDIES PERFORMANCE REQUIREMENTS - COMPLETE 10.0 UNITS

Complete any combination totaling at least 10.0 units from the following:

MUSCP 24A	Vocal Jazz Ensemble	2.5
MUSCP 24B	Vocal Jazz Ensemble	2.5
MUSCP 24C	Vocal Jazz Ensemble	2.5
MUSCP 24D	Vocal Jazz Ensemble	2.5
MUSCP 32A	Jazz Band	4.0
MUSCP 32B	Jazz Band	4.0
MUSCP 32C	Jazz Band	4.0
MUSCP 32D	Jazz Band	4.0
MUSCP 42A	Jazz Combo Ensemble	2.5
MUSCP 42B	Jazz Combo Ensemble	2.5

MUSCP 42C	Jazz Combo Ensemble	2.5
MUSCP 42D	Jazz Combo Ensemble	2.5

MUSIC: JAZZ STUDIES ELECTIVES - COMPLETE 2.0 UNITS

Complete any combination totaling at least 2.0 units from the following:

MUSC 50	Introduction to MIDI	3.0
MUSCP 17A	Elementary Voice	2.0
MUSCP 17B	Intermediate Voice	2.0
MUSCP 19A	Beginning Guitar	2.0
MUSCP 19B	Intermediate Guitar	2.0
MUSCP19.1A	Classical Guitar 1	2.0
MUSCP19.1B	Classical Guitar 2	2.0
MUSCP 23A	Chamber Singers 1	2.5
MUSCP 23B	Chamber Singers 2	2.5
MUSCP 23C	Chamber Singers 3	2.5
MUSCP 23D	Chamber Singers 4	2.5
MUSCP 30A	Symphonic Band 1	2.5
MUSCP 30B	Symphonic Band 2	2.5
MUSCP 30C	Symphonic Band 3	2.5
MUSCP 30D	Symphonic Band 4	2.5
MUSCP 33A	Orchestra 1	2.5
MUSCP 33B	Orchestra 2	2.5
MUSCP 33C	Orchestra 3	2.5
MUSCP 33D	Orchestra 4	2.5

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

PROGRAM REQUIREMENTS NOTES:

All music majors must complete a minimum of FOUR SEMESTERS of both Applied Music (MUSCP 40.x) and a major performance ensemble (see list above).

NOTES:

Incoming Music Majors should have prior experience performing on an instrument or voice, and be able to read music. Students who lack these basic skills are advised to take one or more of the following:

- MUSC 1 Music Fundamentals

MUSIC: VOCAL (AA)

Program of Study Code: 001046

Term Effective: Fall 2016

58.00 Units

(707) 527-4330

manderman@santarosa.edu (mailto:manderman@santarosa.edu)

PROGRAM REQUIREMENTS:

The Music major provides students with the opportunity to earn an Associate in Arts in Music while meeting the typical lower division requirements for a bachelor's degree in Music at a four-year institution. The major is also designed to prepare students for careers in music performance, composition, publishing, education, and other specializations in the music industry.

PROGRAM STUDENT LEARNING OUTCOMES

1. (through music theory) demonstrate an understanding of the fundamental melodic, harmonic, and rhythmic structure of music;
2. (through musicianship) demonstrate fluency with the language of music in written and aural form;
3. (through applied music) perform on their instrument (or voice) at college sophomore level;
4. (through their major performing ensemble) perform effectively in a musical ensemble;
5. (through piano proficiency) utilize the piano keyboard to demonstrate and apply musical concepts; and
6. (through music history) demonstrate a broad-based understanding of the historical and aesthetic development of music.

MUSIC: VOCAL CORE REQUIREMENTS - COMPLETE 27.0 UNITS

MUSC 2A	Music Theory 1	3.0
MUSC 2B	Music Theory 2	3.0
MUSC 2C	Music Theory 3	3.0
MUSC 2D	Music Theory 4	3.0
MUSC 3A	Musicianship 1	2.0
MUSC 3B	Musicianship 2	2.0
MUSC 3C	Musicianship 3	2.0
MUSC 3D	Musicianship 4	2.0

Complete any combination totaling at least 3.0 units from the following:

MUSC 6.1	Music History and Literature: Antiquity to 1750	3.0
MUSC 6.2	Music History and Literature: 1750-Present	3.0

Complete any combination totaling at least 4.0 units from the following:

MUSCP 11A	Class Piano 1	2.0
MUSCP 11B	Class Piano 2	2.0
MUSCP 11C	Class Piano 3	2.0
MUSCP 11D	Class Piano 4	2.0

MUSIC: DICTION AND REPERTOIRE REQUIREMENTS - COMPLETE 8.0 UNITS

MUSC 18.1	Diction and Repertoire: Italian	2.0

MUSC 18.2	Diction and Repertoire: English	2.0
MUSC 18.3	Diction and Repertoire: German	2.0
MUSC 18.4	Diction and Repertoire: French	2.0

MUSIC: VOCAL CONCENTRATION REQUIREMENTS - COMPLETE 10.0 UNITS

Complete any combination totaling at least 10.0 units from the following:

MUSCP 21A	Concert Choir 1	2.5
MUSCP 21B	Concert Choir 2	2.5
MUSCP 21C	Concert Choir 3	2.5
MUSCP 21D	Concert Choir 4	2.5
MUSCP 23A	Chamber Singers 1	2.5
MUSCP 23B	Chamber Singers 2	2.5
MUSCP 23C	Chamber Singers 3	2.5
MUSCP 23D	Chamber Singers 4	2.5

MUSIC ELECTIVES - COMPLETE 2.0 UNITS

Complete any combination totaling at least 2.0 units from the following:

MUSC 4A	Jazz, Rock, and Pop Theory 1	3.0
MUSC 4B	Jazz, Rock, and Pop Theory 2	3.0
MUSC 5A	Jazz Improvisation 1	3.0
MUSC 5B	Jazz Improvisation 2	3.0
MUSC 5C	Jazz Improvisation 3	3.0
MUSC 5D	Jazz Improvisation 4	3.0
MUSC 50	Introduction to MIDI	3.0
MUSCP 17A	Elementary Voice	2.0
MUSCP 17B	Intermediate Voice	2.0
MUSCP 19A	Beginning Guitar	2.0
MUSCP 19B	Intermediate Guitar	2.0
MUSCP19.1A	Classical Guitar 1	2.0
MUSCP19.1B	Classical Guitar 2	2.0
MUSCP 23A	Chamber Singers 1	2.5
MUSCP 23B	Chamber Singers 2	2.5
MUSCP 23C	Chamber Singers 3	2.5
MUSCP 23D	Chamber Singers 4	2.5
MUSCP 24A	Vocal Jazz Ensemble 1	2.5
MUSCP 24B	Vocal Jazz Ensemble 2	2.5
MUSCP 24C	Vocal Jazz Ensemble 3	2.5
MUSCP 24D	Vocal Jazz Ensemble 4	2.5
MUSCP 32A	Jazz Band 1	4.0
MUSCP 32B	Jazz Band 2	4.0
MUSCP 32C	Jazz Band 3	4.0
MUSCP 32D	Jazz Band 4	4.0
MUSCP 42A	Jazz Combo Ensemble 1	2.5
MUSCP 42B	Jazz Combo Ensemble 2	2.5

MUSCP 42C	Jazz Combo Ensemble 3	2.5
MUSCP 42D	Jazz Combo Ensemble 4	2.5

MUSIC: VOCAL APPLIED MUSIC REQUIREMENTS - COMPLETE 10.0 UNITS

MUSCP 40.2	Applied Music (Individual Instruction): Voice	2.5

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

PROGRAM REQUIREMENTS NOTES:

All music majors must complete a minimum of FOUR SEMESTERS of both Applied Music (MUSCP 40.x) and a major performance ensemble (see list above).

NOTES:

Students should have prior experience performing on an instrument or voice, and be able to read music. Students who lack these basic skills are advised to take one or more of the following:

- MUSC 1 Music Fundamentals
- MUSCP 17A Elementary Voice

IMPORTANT: For the Music: Vocal Applied Music Requirements, students must successfully complete MUSCP 40.2 four times for a total of 10.0 units.

NATIVE AMERICAN STUDIES (AA)

Program of Study Code: 001076

Term Effective: Fall 2019

18.00 Units

(707) 527-4613

bflyswithhawks@santarosa.edu (mailto:bflyswithhawks@santarosa.edu)

PROGRAM REQUIREMENTS:

The Native American Studies Associate in Arts is designed to prepare students for transfer to a baccalaureate program in Native American Studies, American Indian Studies, or Ethnic Studies with an emphasis on Native American Cultural Studies. The degree offers an interdisciplinary approach that includes Native American visual arts, literature, religious traditions, and history, as well as the interaction of Native American cultures with non-native cultures within a larger historical context of California and the United States. The Associate Degree in Native American Studies also prepares students to serve in a variety of capacities. Graduates can attain positions with: tribes, indigenous organizations, federal, state, and local governments, social service agencies, non-profit organizations, community organizations, museums, youth-serving organizations, schools, and research centers, among others

PROGRAM STUDENT LEARNING OUTCOMES

1. Analyze and compare cultural traditions such as kinship, childrearing, religion, magic, political systems, language, and relationship to nature within a global context.
2. Describe the history and traditions of representative Native cultures of North America, including indigenous cultural responses to the colonial influences of European and other cultural contacts.
3. Analyze, interpret, and discuss the arts of diverse Native American cultures, including worldviews, practices and oral traditions, as expressed in their material culture within an historical context.
4. Describe and analyze the interrelated roles of race, ethnicity, and gender in shaping political and cultural institutions in the United States.

NATIVE AMERICAN STUDIES REQUIREMENTS - COMPLETE 18.0 UNITS

ANTHRO 2	Cultural Anthropology	3.0
ANTHRO 32	Native Cultures of North America	3.0
ANTHRO 43	Native American Art and Culture	3.0
HIST 21	Race, Ethnicity and Gender in American Culture	3.0

Complete any combination totaling at least 6.0 units from the following:

ANTHRO 4	Ancient Peoples and Society	3.0
ANTHRO 21	American Folklore and Folklife	3.0
ANTHRO 31	Mesoamerican Origins of Latino Culture	3.0
ANTHRO 34	Native Cultures of California	3.0
COMM 7	Intercultural Communication	3.0
COUN 74	Identity and Cultural Diversity	3.0
HIST 22	History of California	3.0
HIST 26	History of Chicanos and Latinos from 1848 to Present	3.0
HUMAN 6	Humanities in the United States	3.0
PSYCH 34	The Psychology of Prejudice and Discrimination	3.0
RELS 32	Religion in America	3.0
SOC 30	Race and Ethnic Relations	3.0

NATURAL RESOURCES (AS)

Program of Study Code: 002020

Term Effective: Fall 2019

27.00 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Natural Resources major (AS degree) is a transfer-oriented program. Students conduct introductory coursework in Forestry, Watershed Management and Parks and Recreation that prepares them to successfully complete a Bachelor's degree in these or related fields at 4-year college or university. The major also provides career-oriented training necessary for technician-level positions in natural resource conservation and the outdoor recreation industry with government agencies and the private sector. The program consists of 20 units of core requirements and 6 units of elective courses that allow the student to specialize or focus on a particular area of Natural Resources.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify and discuss historical approaches to Natural Resource Management in the U.S.;
2. Develop and use vocabulary for the protection, cultivation and management of wildlands;
3. Discuss economic benefits to protecting healthy watershed characteristics including: recreation opportunities, biological diversity, species richness and clean water;
4. Critically analyze and apply research and extension work in the field of watershed, park management, and forestry; and
5. Identify best management practices strategies for managing land and recreational areas.

NATURAL RESOURCES CORE REQUIREMENTS - COMPLETE 20.0 UNITS

Complete any combination totaling at least 20.0 units from the following:

AGRI 60	Soil & Plant Nutrition	3.0
NRM 12	Introduction to Environmental Conservation	3.0
NRM 51	Wildland Trees and Shrubs	3.0
NRM 70	Forest Management and Assessment	4.0
NRM 84	Introduction to Fish and Wildlife Conservation	3.0
NRM 87	Geographic Info. Systems Applications in Natural Resources	3.0
NRM 88	Watershed Ecology and Restoration	3.0
NRM 99I	Natural Resources Mgnt Occupational Work Experience Intern	8.0

NATURAL RESOURCES ELECTIVE REQUIREMENTS - COMPLETE 6.0 UNITS

Complete any combination totaling at least 6.0 units from the following:

BAD 52	Human Relations in Organizations	3.0
CS 72.11A	Adobe InDesign 1	3.0
NRM 60	Introduction to Outdoor Recreation	3.0
NRM 63	Environmental Education	3.0

NRM 67	Recreation Facility Management	3.0
NRM 72	Forest Fire Control and Its Use	3.0
NRM 80	Environmental Policy for Resource Managers	3.0
NRM 86	Watershed Resource Management	2.0
NRM 91	Rangeland Management	3.0
NRM 103	Restoring Native Habitats	0.5
NRM 111	Orientation to Environmental Resource Management	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

Students who elect to take more than three courses from the Parks and Recreation Management Emphasis Requirements course list can use the additional course(s) to partially satisfy the Parks and Recreation Management Elective Requirement.

NATURAL SCIENCES (AS)

Program of Study Code: 002002

Term Effective: Fall 2019

19.00 Units

(707) 527-4246

vtam@santarosa.edu (mailto:vtam@santarosa.edu)

PROGRAM REQUIREMENTS:

The Natural Sciences major focuses on the physical universe, its life forms, and its natural phenomena. This degree program is intended for the student who wants to explore the natural sciences as a foundation for lifelong learning, or as an introduction to the various related disciplines in the natural sciences, including astronomy, biology, botany, chemistry, environmental science, geology, meteorology, physics, and physiology.

NATURAL SCIENCES MAJOR REQUIREMENTS - COMPLETE 18.0 UNITS

Complete any combination totaling at least 18.0 units from the following:

AGRI 10	Introduction to Agricultural Sciences	3.0
AGRI 20	Introduction to Plant Science	3.0
ANAT 1	General Human Anatomy	5.0
ANAT 40		

Introduction to Human Anatomy and Physiology		4.0
ANAT 58	Introduction to Human Anatomy	3.0
ANSCI 20	Basic Animal Science	3.0
ANTHRO 1	Biological Anthropology	3.0
ANTHRO 1L	Biological Anthropology Lab	1.0
ASTRON 12	Astronomy Observational Lab	1.0
ASTRON 3	Stellar Astronomy	3.0
ASTRON 3L	Stellar Astronomy Laboratory	1.0
ASTRON 4	Astronomy of the Solar System	3.0
ASTRON 4L	Solar System Astronomy Laboratory	1.0
BIO 10	Introduction to Principles of Biology	4.0
BIO 12	Basic Concepts of Ecology	3.0
BIO 13	Human Biology	3.0
BIO 2.1	Fundamentals of Biology (Cell and Molecular)	5.0
BIO 2.2	Fundamentals of Biology (Evolution, Genetics, and Zoology)	5.0
BIO 2.3	Fundamentals of Biology (Botany and Ecology)	5.0
BIO 14	Current Issues in Biology	3.0
BIO 16	Introduction to Biology For Non-Majors	4.0
BIO 25	Marine Biology	4.0
BIO 27	Biology of Marine Mammals	3.0
BOTANY 10	Plant Biology	4.0
BOTANY 60	Field Botany	4.0
CHEM 1A	General Chemistry	5.0
CHEM 1B	General Chemistry	5.0
CHEM 12A	Organic Chemistry	5.0
CHEM 12B	Organic Chemistry	5.0
CHEM 42	Introductory General Chemistry	4.0
CHEM 8	Introductory Organic Chemistry	5.0
CHEM 60	General, Organic and Biological Chemistry	5.0
ENVS 12	Introduction to Environmental Science	3.0
FDNT 10	Elementary Nutrition	3.0
GEOG 4	Physical Geography	3.0
GEOG 10	Introduction to Weather and Climate	3.0
GEOL 1	The Earth	3.0
GEOL 1L	Geology Lab	1.0

GEOL 11	Geology of California	3.0
GEOL 20	Natural Disasters	3.0
MATH 1A	Calculus, First Course	5.0
MATH 1B	Calculus, Second Course	5.0
MATH 4	Discrete Mathematics	4.0
MATH 9	Finite Mathematics	3.0
MATH 10	Nature of Mathematics	3.0
MATH 15	Elementary Statistics	4.0
MATH 16	Introduction to Mathematical Analysis	4.0
MATH 25	Precalculus Algebra	3.0
MATH 27	Precalculus Algebra and Trigonometry	5.0
MATH 58	Precalculus Trigonometry	3.0
MATH 154	Elementary and Intermediate Algebra For Business and STEM	8.0
MATH 155	Intermediate Algebra	4.0
METRO 10	Introduction to Weather and Climate	3.0
METRO 10L	Weather and Climate Lab	1.0
MICRO 5	General Microbiology	5.0
MICRO 60	Fundamentals of Microbiology	4.0
NRM 12	Introduction to Environmental Conservation	3.0
NRM 51	Wildland Trees and Shrubs	3.0
PHYS 1	Introduction to Physics Problem Solving	3.0
PHYS 11	Conceptual Physics	4.0
PHYS 20	General Physics Lecture Part I	3.0
PHYS 20L	General Physics Lab Part I	1.0
PHYS 21	General Physics Lecture Part II	3.0
PHYS 21L	General Physics Lab Part II	1.0
PHYS 40	Classical Mechanics for Scientists and Engineers	5.0
PHYS 41	Waves, Optics and Thermodynamics for Scientists & Engineers	4.0
PHYS 42	Electricity and Magnetism for Scientists and Engineers	4.0
PHYS 43	Modern Physics for Scientists and Engineers	3.0
PHYSIO 1	Human Physiology	5.0
PHYSIO 58	Introduction to Human Physiology	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

PROGRAM REQUIREMENTS NOTES:

Students must complete at least 18 units from the list below; course choices must include at least one course from three different science disciplines: chemistry, earth & space sciences, life sciences, math, and physics. In addition, students must complete 1 unit for the Learning Information Resources requirement.

Students may only count 1 course each from the following three groups toward the major requirements: ANAT 1 or ANAT 40 or ANAT 58; MICRO 5 or MICRO 60; PHYSIO 1 or PHYSIO 58.

No course may be counted twice to fulfill the major requirements.

NURSING ADN (AS)

Program of Study Code: 002001

Term Effective: Fall 2018

78.00 Units

(707) 527-4527

avaldez@santarosa.edu (mailto:avaldez@santarosa.edu)

PROGRAM REQUIREMENTS:

The Nursing major has been approved by the California Board of Registered Nursing. Students receive clinical experiences in a variety of clinical facilities and community agencies throughout Sonoma County.

PROGRAM STUDENT LEARNING OUTCOMES

1. Practice nursing in ways that minimize risk of harm to patients and providers through their individual performances and contributions to system effectiveness.
2. Use data to monitor the outcomes of care processes and actively participate in continuous quality improvements activities.
3. Use information and technology to communicate, manage knowledge, mitigate error, and support decision-making that improves patient outcomes.
4. Integrate the best current evidence with clinical expertise and patient/family preferences and values for delivery of optimal health care.
5. Function effectively within nursing and inter-professional teams, using open communication, respect for others, and shared decision-making to achieve quality patient care.
6. Provide and direct nursing care that promotes and supports the emotional, mental and social well-being of the patient experiencing stressful events, as well as clients with acute or chronic mental illness.
7. Promote physical health and wellness by providing care and comfort, reducing patient risk potential and managing health alterations.

8. Use the Nursing Process and critical thinking to provide safe and effective patient care in a variety of practice settings.
9. Recognize the patient and family or designee as the source of control and full partner in providing compassionate and coordinated care based on respect for the patient's preferences, values, and needs.
10. Provide and direct nursing care that incorporates the knowledge of expected growth and development principles; prevention and/or early detection of health problems, and strategies to achieve optimal health.
11. Facilitate patient and family learning by providing information and resources to support health and manage disease.

PROGRAM SELECTION PROCESS:

The selection process is in compliance with Title 5 of the California Education Code. Screening is based on a probability of student succeeding in an ADN program. The score is determined by a formula using the following four criteria:

- **Overall College GPA within the last 5 years prior to application to the ADN program**
- English Composition GPA (English 1A or equivalent)
- Overall GPA in the following prerequisite sciences (anatomy, physiology, microbiology)
- Minus the number of repeats, withdraws, no credits, and incomplete grades in the core sciences (negative predictor of success).

The formula will determine a probability of success score for each student. All students who have this score or higher will be eligible for the program. If there are more students than seats in the program, a random computerized selection process (lottery) will be used to select the individuals entering the program from applicants who met the minimum cut score, along with an alternate list. The alternate list is not kept from year to year. Students not accepted must reapply each year.

Senate bill 1309 legislates that ADN programs are to implement assessment testing of students prior to the student being allowed to start ADN coursework. Beginning Spring 2008, all students who are accepted into the SRJC ADN program will be required to successfully pass an assessment test. Those students who pass the test may enroll in ADN coursework. Those students who do not pass are required to take remedial coursework and successfully complete assessment testing before being allowed to enter the ADN program.

NURSING (ADN) PREREQUISITES REQUIREMENTS - COMPLETE 21.0 UNITS

ANAT 1	General Human Anatomy	5.0
PHYSIO 1	Human Physiology	5.0
ENGL 1A	Reading & Composition	4.0

Complete any combination totaling at least 3.0 units from the following:

FDNT 62	Nutrition & Diet Therapy	3.0
FDNT 10	Elementary Nutrition	3.0

And

FDNT 162	Diet Therapy for Healthcare	2.0

Complete any combination totaling at least 4.0 units from the following:

MICRO 5	General Microbiology	5.0
MICRO 60	Fundamentals of Microbiology	4.0

NURSING (ADN) BOARD OF REGISTERED NURSING REQUIREMENTS - COMPLETE 9.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

COMM 1	Introduction to Public Speaking	3.0
COMM 3	Introduction to Argumentation	3.0
COMM 5	Group Discussion and Problem Solving	3.0
COMM 6	Interpersonal Communication	3.0
COMM 7	Intercultural Communication	3.0
COMM 60	Communication Skills	3.0

Complete any combination totaling at least 3.0 units from the following:

PSYCH 1A	General Psychology	3.0
PSYCH 4	Child and Adolescent Psychology	3.0
PSYCH 7	Theories of Personality	3.0
PSYCH 8	Introduction to Lifespan Psychology	3.0
PSYCH 56	Aging, Dying and Death	3.0

Complete any combination totaling at least 3.0 units from the following:

ANTHRO 2	Cultural Anthropology	3.0
ANTHRO 21	American Folklore and Folklife	3.0
SOC 1	Introduction to Sociology	3.0
SOC 2	Modern Social Problems	3.0
SOC 10	Marriage & the Family	3.0
SOC 30	Race & Ethnic Relations	3.0

NURSING (ADN) CORE REQUIREMENTS - COMPLETE 48.0 UNITS

NR 75.1A	Fundamentals of Professional Nursing	12.0
NR 75B	Nursing Care of the Adult/Older Adult/Psychiatric Client	12.0
NR 75C	Nursing Care of the Acutely Ill, Perinatal, & Pediatric PT	12.0
NR 75D	Advanced Care of Acutely Ill	12.0

NOTES:

CHEM 60 and BIO 10 are prerequisites to the Anatomy, Physiology, and Microbiology courses. *Prerequisite science courses without an on campus laboratory component will not be accepted.*

Because basic algebra is recommended for chemistry, students without basic algebra skills are advised to take Elementary Algebra. The department recommends that students meet the math competency requirement for the Associate Degree prior to entering the program.

Food & Nutrition and Psychology courses must be completed PRIOR to start of the program.

Beginning with the class of Fall 2009, only college transferable reading and composition courses (English 1A or equivalent) will be accepted to fulfill the English prerequisite requirement. English 100 and English 100 ESL will no longer be accepted. This change is effective for students who apply Fall 2008 for the Fall 2009 ADN program.

Prior to being accepted into the ADN program students must successfully complete a background check, clear urine drug screen, and other clinical placement health requirements. For specific guidance on qualification requirements and selection process please refer to the ADN web page available at: **adn.santarosa.edu (http://adn.santarosa.edu)**.

All courses taken in conjunction with this program must be completed with a grade of 'C' or better. *(A C minus in prerequisite courses will not be accepted if the C minus is less than 70%.)*

Updated 5/4/16

NUTRITION & DIETETICS (AA)

Program of Study Code: 001018

Term Effective: Fall 2018

40.00 Units

(707) 522-2711

tsakanashi@santarosa.edu (mailto:tsakanashi@santarosa.edu)

PROGRAM REQUIREMENTS:

The Nutrition & Dietetics major provides education in nutrition science and the relationship of the human diet to health and lifestyle-related diseases. The purpose of the Nutrition & Dietetics major is to provide students with education and training in the area of nutritional sciences or dietetics and to prepare for transfer.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify the role of nutrients and healthy food preparations for optimal health and well-being;
2. select appropriate foods for a healthy diet and disease risk reduction;
3. clearly communicate nutrition concepts in oral and written formats;
4. use critical thinking to analyze and interpret information from various media sources and draw scientifically-based conclusions; and
5. transfer to a four-year program in Nutrition, Dietetics, and/or Food Science.

NUTRITION & DIETETICS MAJOR CORE REQUIREMENTS - COMPLETE 39.0 UNITS

CHEM 1A	General Chemistry	5.0
CHEM 1B	General Chemistry	5.0
CHEM 8	Introductory Organic Chemistry	5.0
FDNT 10	Elementary Nutrition	3.0
FDNT 70	Introduction to Nutrition, Dietetics and Food Service	1.0
FDNT 75	Principles of Food	3.0
MATH 15	Elementary Statistics	4.0
PHYSIO 1	Human Physiology	5.0
PSYCH 1A	General Psychology	3.0

Complete any combination totaling at least 5.0 units from the following:

BIO 2.1	Fundamentals of Biology (Cell and Molecular)	5.0
BIO 2.2	Fundamentals of Biology (Evolution, Genetics, and Zoology)	5.0
MICRO 5	General Microbiology	5.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

Math, Chemistry, Physiology, Biology and Microbiology courses require placement exams or successful completion of pre-requisite courses prior to enrollment; check individual courses for specific requirements and timelines for placement exams. Completion of pre-reqs for the required science and math courses for this major are CRITICAL during the FIRST semester of enrollment if a student wants to complete within 4 semesters.

PARALEGAL STUDIES (AA)

Program of Study Code: 001052

Term Effective: Fall 2019

36.00 Units

(707) 527-4628

sfischera@santarosa.edu (mailto:sfischera@santarosa.edu)

PROGRAM REQUIREMENTS:

The Santa Rosa Junior College Paralegal Studies Program is an academic Associate in Arts degree program for students seeking employment in the legal field and in business. The curriculum blends an understanding of legal theory and practical skills, based on actual paralegal job responsibilities. Classes are taught by practicing attorneys and paralegals in the evenings and on weekends.

PROGRAM STUDENT LEARNING OUTCOMES

1. Locate statutes and case law by researching legal issues;
2. compose legal documents and complete mandated legal court forms;
3. apply learned critical thinking and analytical skills to client matters;
4. compile and organize materials efficiently for trials;
5. interview witnesses and conduct investigations on the behalf of clients; and
6. complete specific, substantive tasks as delegated by the supervising attorney.

PARALEGAL STUDIES CORE REQUIREMENT - COMPLETE 26.0 UNITS

PLS 50	Introduction to Paralegal Studies	3.0
PLS 51	Legal Research	3.0
PLS 52	Legal Writing	3.0
PLS 53	Civil Procedure: Pleadings	3.0
PLS 54	Civil Procedure: Discovery	3.0
PLS 55	Legal Ethics	2.0
PLS 99I	Paralegal Occupational Work Experience Internship	8.0
BGN 71	Business English Grammar	3.0
BOT 85.1	Legal Professions	1.0
BOT 85.4	Civil Litigation Practices and Procedures	1.5
BOT 85.5	Discovery Practices and Procedures	1.5

PARALEGAL STUDIES ELECTIVE A - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

CS 65.11	Microsoft Office	3.0
PLS 65	Technology in the Law Office: Practice, Procedures & Ethics	3.0

PARALEGAL STUDIES ELECTIVE B - COMPLETE 7.0 UNITS

Complete any combination totaling at least 7.0 units from the following:

BAD 18	The Legal Environment of Business	3.0
PLS 60	Legal Calendaring	1.0
PLS 61	Intellectual Property Law	3.0
PLS 62	Torts	3.0
PLS 63	Contracts	3.0
PLS 64	The American Jury System	1.0
PLS 66	Wills, Trusts and Estate Planning	3.0
PLS 67	Family Law	3.0
RE 55	Legal Aspects of Real Estate	3.0

NOTES:

Students with a Bachelor's Degree or Higher

Students who already possess a Bachelor's Degree or higher from a regionally accredited institution of higher education may be awarded an Associate's Degree upon completion of the following: 1 . All requirements in a major in a different field of study. 2 . Twelve units in residence. 3 . A Bachelor's Degree or higher from a regionally accredited college in the United States will be accepted as fulfilling the General Education requirements for graduation.

PARAMEDIC (AS)

Program of Study Code: 002007

Term Effective: Fall 2019

50.25 Units

(707) 836-2907

ahsieh@santarosa.edu (mailto:ahsieh@santarosa.edu)

PROGRAM REQUIREMENTS:

The Paramedic program provides technical and practical knowledge and skills to meet the requirements of the California Administrative Code to gain licensure as a paramedic by the California State Emergency Medical Services Authority. Students must be 18 years of age to enter the program.

PROGRAM STUDENT LEARNING OUTCOMES

1. Complete the National Registry written exam;
2. complete the National Registry Skills Exam; and
3. demonstrate professional behavior consistent with criteria for employment as a licensed paramedic in the state of California.

PROGRAM SELECTION PROCESS:

Please see the **Public Safety (https://pstc.santarosa.edu/)** department website for more information about entering the program. A current EMT-1 certificate is required to enter this program.

PARAMEDIC MAJOR PREREQUISITES - COMPLETE 11.8 UNITS

ANAT 40	Introduction to Human Anatomy and Physiology	4.0
EMC 103	Emergency Medical Technician	5.5
EMC 109	Introduction to Paramedic	0.3
EMC 114	Basic Arrhythmia Recognition Course	2.0

PARAMEDIC MAJOR CORE REQUIREMENTS - COMPLETE 38.5 UNITS

EMC 131A	Paramedic Clinical Practicum 1	2.0
EMC 131B	Paramedic Clinical Practicum 2	3.0
EMC 133A	Paramedic Theory 1A - Preparatory	9.5
EMC 133B	Paramedic Theory 1B - Trauma Emergencies	2.5
EMC 133C	Paramedic Theory 2A - Medical Emergencies	8.0
EMC 133D	Paramedic Theory 2B - Pediatric and other Emergencies	3.5
EMC 134	Paramedic Field Practicum	10.0

NOTES:

Student's participating in the program must have the following:

High school diploma/GED
Current EMT- 1 certificate
Current health care provider CPR certification
Current immunizations (MMR, Tetanus, Hepatitis B, negative TB Skin test)
Evidence of good health verified by a physical examination
Background clearance

EMC program staff registers students into EMC 133A through D and 131A after enrollment is complete. Students are unable to enroll independently.
EMC 109 is taken in the Spring before the Paramedic Academy begins. Enrollment into EMC 109 is based on approval from EMC Program.
EMC 133A begins in early August and continues into Fall semester. EMC 131A is a co-enrollment with EMC 133A.

Outside coursework for EMC 114 and ANAT 40 may be accepted for application to the Paramedic Academy. Determination of acceptance is made on a case by case basis. Prospective students should review the student learning objectives for each course and compare them to the outside coursework prior to taking the class(es).

ANAT 58 may be considered as a substitute for ANAT 40

PHARMACY TECHNICIAN (AS)

Program of Study Code: 002009

Term Effective: Fall 2019

22.00 Units

(707) 521-7906

adeen@santarosa.edu (mailto:adeen@santarosa.edu)

PROGRAM REQUIREMENTS:

The Pharmacy Technician major prepares students to be registered pharmacy technicians and for employment in a variety of pharmacy settings.

PROGRAM STUDENT LEARNING OUTCOMES

1. Pharmacologically classify a drug after having been presented with its generic name, brand (trade) name, chemical name and indication;
2. interpret current federal and state legislation and name the agencies regulating the practice of pharmacy;
3. create patient profiles utilizing information obtained from the prescription and the patient;
4. read and write proper medical notation on the drug order and interpret information on drug labels and stock bottles;
5. calculate the oral dosages of drugs, both solid and liquid forms based on currently accepted pharmaceutical mathematics;
6. describe the pharmacological action, therapeutic effects, common side effects, doses and drug interactions of common medications prescribed to treat dysfunction of selected body systems; and

7. describe common pharmaceutical measuring, weighing and compounding devices and accurately use the metric, apothecary, avoirdupois and household systems to count and measure.

PHARMACY TECHNICIAN REQUIREMENTS - COMPLETE 21.0 UNITS

PHARM 102	Pharmaceutical Calculations for the Pharmacy Technician	2.0
PHARM 103	Critical Thinking and Management Skills for the PT	2.0
PHARM 150	Introduction to Pharmacy Technician	3.0
PHARM 152	Ambulatory Pharmacy Practice	2.0
PHARM 154A	Retail Clinical 1	1.0
PHARM 154B	Retail Clinical 2	3.0
PHARM 155	Pharmacology	4.0
PHARM 156	Dispensing and Compounding	3.0
PHARM 157	Hospital Pharmacy Practice for the Pharmacy Technician	0.5
PHARM 157L	Hospital Pharmacy Clinical Experience	0.5

NOTES:

Licensure Note: The California State Board of Pharmacy may deny licensure for felony or misdemeanor offences. It is the responsibility of the student to present sufficient evidence of rehabilitation prior to licensure and/or secure a pre-application process with the Board, independent to the program admission application.

Other Notes:

- All courses must be completed with a "C" or better.
- PHARM 150 (delivered online) is only offered in the Summer semester and it is suggested that students take CSKLS 334- How to Take an Online Class, before enrolling for PHARM 150.

PHILOSOPHY (AA)

Program of Study Code: 001012

Term Effective: Fall 2019

19.00 Units

(707)527-4607

smartin@santarosa.edu (mailto:smartin@santarosa.edu)

PROGRAM REQUIREMENTS:

The Philosophy major provides lower division preparation for those who plan to major in Philosophy at a university. An Associate Degree in Philosophy can also provide a foundation for lifelong learning.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify characteristically philosophical issues; and
2. identify and critically evaluate philosophical arguments, including the arguments of prominent philosophers from the history of philosophy.

PHILOSOPHY MAJOR REQUIREMENTS - COMPLETE 18.0 UNITS

PHIL 6	Introduction to Philosophy	3.0
PHIL 20	History of Western Philosophy: Ancient and Medieval	3.0
PHIL 21	History of Western Philosophy: Modern	3.0

Complete any combination totaling at least 6.0 units from the following:

PHIL 7	Contemporary Moral Issues	3.0
PHIL 9	Political Philosophy	3.0
PHIL 10	Philosophy of Peace and Nonviolent Action	3.0
PHIL 11	Introduction to Asian Philosophy	3.0
PHIL 12	Environmental Philosophy	3.0
POLS 18	Political Theory	3.0
RELS 2	World Religions	3.0
RELS 3	History of God	3.0
RELS 21	The Hebrew Bible	3.0
RELS 22	Early Christian Literature	3.0
RELS 32	Religion in America	3.0

Complete any combination totaling at least 3.0 units from the following:

PHIL 3	Critical Thinking	3.0
PHIL 4	Introduction to Symbolic Logic	3.0
PHIL 5	Critical Thinking/Writing	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

PHILOSOPHY (AA-T)

Program of Study Code: 001070

Term Effective: Fall 2019

18.00 Units

(707) 527-4239

maparicio@santarosa.edu (mailto:maparicio@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Arts for Transfer in Philosophy is designed to guide the student seeking a bachelor's degree in Philosophy to fulfill the lower division requirements for that degree. The Philosophy Associate in Arts for Transfer degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following ADT requirements to earn this degree: 1. Complete 60 semester units that are eligible for transfer to the California State University, including both of the following: -(A)The Inter-segmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth requirements; and -(B) A minimum of 18 semester units as required for the Associate in Arts for Transfer in Philosophy major. 2. Obtain an overall minimum grade point average of 2.0 3. Earn a grade of C or better in all courses required for the Associate in Arts for Transfer Degree in Philosophy major.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify characteristic philosophical issues; and
2. Identify and critically evaluate philosophical arguments, including the arguments of prominent philosophers from the history of philosophy.

PHILOSOPHY FOR TRANSFER CORE REQUIREMENTS - COMPLETE 6.0 UNITS

PHIL 4	Introduction to Symbolic Logic	3.0
PHIL 6	Introduction to Philosophy	3.0

PHILOSOPHY FOR TRANSFER LIST A REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

PHIL 20	History of Western Philosophy: Ancient and Medieval	3.0
PHIL 21	History of Western Philosophy: Modern	3.0

PHILOSOPHY FOR TRANSFER LIST B REQUIREMENTS - COMPLETE 6.0 UNITS

Complete any combination totaling at least 6.0 units from the following:

PHIL 3	Critical Thinking	3.0
PHIL 5	Critical Thinking/Writing	3.0
PHIL 20	History of Western Philosophy: Ancient and Medieval	3.0
PHIL 21	History of Western Philosophy: Modern	3.0
RELS 2	World Religions	3.0

PHILOSOPHY FOR TRANSFER LIST C REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

PHIL 3	Critical Thinking	3.0
PHIL 5	Critical Thinking/Writing	3.0
PHIL 7	Contemporary Moral Issues	3.0
PHIL 9	Political Philosophy	3.0
PHIL 10	Philosophy of Peace and Nonviolent Action	3.0
PHIL 11	Introduction to Asian Philosophy	3.0
PHIL 12	Environmental Philosophy	3.0
PHIL 20	History of Western Philosophy: Ancient and Medieval	3.0
PHIL 21	History of Western Philosophy: Modern	3.0
RELS 1	Introduction to Religious Studies	3.0
RELS 2	World Religions	3.0
RELS 3	History of God	3.0
RELS 15	Islam	3.0
RELS 21	The Hebrew Bible	3.0
RELS 22	Early Christian Literature	3.0
RELS 32	Religion in America	3.0

NOTES:

NOTES: A course used to satisfy the List A requirements cannot be used to satisfy List B or List C. A course used to satisfy the List B requirements cannot be used to satisfy List A or List C. A course used to satisfy the List C requirements cannot be used to satisfy List A or List B.

PHYSICS (AS)

Program of Study Code: 002050

Term Effective: Fall 2018

39.00 Units

(707) 527-4680

lwilliams@santarosa.edu (mailto:lwilliams@santarosa.edu)

PROGRAM REQUIREMENTS:

The Physics Degree Program is designed to prepare students for transfer and upper division work at four-year colleges and universities in the fields of physics, astronomy, astrophysics, or applied physics. Students develop the conceptual knowledge, analytical abilities, and laboratory skills necessary for further study in physics related fields.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply physical principles from the basic subfields of physics (classical mechanics, electricity and magnetism, quantum mechanics, statistical mechanics, and thermodynamics), as well as areas from application (e.g. solid state physics, optics, etc.) in advanced courses;
2. apply physical principles to novel situations through critical thinking, problem solving, mathematical modeling, and laboratory experimentation.
3. design and assemble experimental apparatuses, conduct and analyze measurements of physical phenomena, assess experimental uncertainty, and make meaningful comparisons between experiment and theory; and
4. communicate ideas and processes of physics clearly and precisely, both orally and in writing.

PHYSICS REQUIREMENTS - COMPLETE 38.0 UNITS

MATH 1A	Calculus, First Course	5.0
MATH 1B	Calculus, Second Course	5.0
MATH 1C	Calculus, Third Course	4.0
MATH 2	Calculus, Fourth Course-Differential Equations	3.0
PHYS 40	Classical Mechanics for Scientists and Engineers	5.0
PHYS 41	Waves, Optics and Thermodynamics for Scientists & Engineers	4.0
PHYS 42	Electricity and Magnetism for Scientists and Engineers	4.0
PHYS 43	Modern Physics for Scientists and Engineers	3.0
CHEM 1A	General Chemistry	5.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

PHYSICS (AS-T)

Program of Study Code: 002066

Term Effective: Fall 2017

30.00 Units

(707) 527-4603

lwilliams@santarosa.edu (mailto:lwilliams@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Science for Transfer in Physics degree is designed to prepare students for transfer and upper division work at a CSU campus in the field of Physics. Students develop the conceptual knowledge, analytical abilities, and laboratory skills necessary for further study in physics and related fields. The Physics Associate in Science for Transfer degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree. (1) Complete 60 semester units that are eligible for transfer to the California State University, including both of the following: (A) The Inter-segmental General Education Transfer Curriculum (IGETC); and (B) A minimum of 29 semester units as required for the Associate in Science in Physics for Transfer major. (2) Obtain an overall minimum grade point average of 2.0 (3) Earn a grade of C or better in all courses required for the Associate in Science in Physics for Transfer major. Upon successful completion of this major, the student will be able to: 1. Apply physical principles from the basic subfields of physics (classical mechanics, electricity and magnetism, quantum mechanics, statistical mechanics, and thermodynamics), as well as apply applications of Physics (e.g. solid state physics, optics, etc.) in advanced courses; 2. Apply physical principles to novel situations through critical thinking, problem solving, mathematical modeling, and laboratory experimentation. 3. Design and assemble experimental apparatuses, conduct and analyze measurements of physical phenomena, assess experimental uncertainty, and make meaningful comparisons between experiment and theory; and 4. Communicate ideas and processes of physics clearly and precisely, both orally and in writing.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply physical principles from the basic subfields of physics (classical mechanics, electricity and magnetism, quantum mechanics, statistical mechanics, and thermodynamics), as well as apply applications of Physics (e.g. solid state physics, optics, etc.) in advanced courses;
2. Apply physical principles to novel situations through critical thinking, problem solving, mathematical modeling, and laboratory experimentation.
3. Design and assemble experimental apparatuses, conduct and analyze measurements of physical phenomena, assess experimental uncertainty, and make meaningful comparisons between experiment and theory; and
4. Communicate ideas and processes of physics clearly and precisely, both orally and in writing.

PHYSICS FOR TRANSFER CORE REQUIREMENTS - COMPLETE 30.0 UNITS

MATH 1A	Calculus, First Course	5.0
MATH 1B	Calculus, Second Course	5.0
MATH 1C	Calculus, Third Course	4.0
PHYS 40	Classical Mechanics for Scientists and Engineers	5.0
PHYS 41	Waves, Optics and Thermodynamics for Scientists & Engineers	4.0
PHYS 42	Electricity and Magnetism for Scientists and Engineers	4.0
PHYS 43	Modern Physics for Scientists and Engineers	3.0

NOTES:

MATH 2 is a prerequisite to PHYS 43 and may be taken after successful completion of MATH 1C.
To keep this degree under 60 units, **only the GE IGETC pattern** can be used.

POLITICAL SCIENCE (AA)

Program of Study Code: 001031

Term Effective: Fall 2016

19.00 Units

(707) 527-4450

alarue@santarosa.edu (mailto:alarue@santarosa.edu)

PROGRAM REQUIREMENTS:

The Political Science major will provide students with a framework for understanding political theories, institutions and processes. Completion of the program should provide students with the analytical tools needed for success in the major at the university level.

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe how different political theories and political systems address the question of who governs, how resources are allocated, and what rights citizens have in a society;
2. analyze how political institutions and processes impact our daily lives;
3. employ critical thinking skills and analysis to interpret and support a political position;
4. research contemporary political issues drawing on diverse sources, including online material; and
5. assess and distinguish between factual and interpretive information.

POLITICAL SCIENCE MAJOR REQUIREMENTS - COMPLETE 18.0 UNITS

POLS 1	Introduction to United States Government	3.0
POLS 2	Introduction to Comparative Government	3.0
POLS 18	Political Theory	3.0
POLS 25	Introduction to International Relations	3.0

Complete any combination totaling at least 6.0 units from the following:

ECON 1	Principles of Macroeconomics	3.0
ECON 2	Principles of Microeconomics	3.0
HIST 1.2	World History Since 1500 C.E.	3.0
HIST 4.1	History of Western Civilization to 1648 C.E.	3.0
HIST 4.2	History of Western Civilization from 1648 C.E.	3.0
HIST 17.1		

History of the United States to 1877		3.0
HIST 17.2	U.S. History from 1877	3.0
HIST 20	History of the US Since 1945	3.0
HIST 22	History of California	3.0
MATH 15	Elementary Statistics	4.0
PHIL 9	Political Philosophy	3.0
SOC 1	Introduction to Sociology	3.0
SOC 2	Modern Social Problems	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

POLITICAL SCIENCE (AA-T)

Program of Study Code: 001060

Term Effective: Fall 2017

18.00 Units

(707) 524-1812

adonegan@santarosa.edu (mailto:adonegan@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Arts for Transfer in Political Science (AA-T) degree will provide students with a framework for understanding political theories, institutions and processes. Completion of the degree should provide students with a seamless transition to a CSU and the analytical tools needed for success in the major at the university level. This associate degree is designed to provide a clear and seamless pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs.

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe how different political theories and political systems address the question of who governs, how resources are allocated, and what rights citizens have in a society;
2. analyze how political institutions and processes impact our daily lives;
3. employ critical thinking skills and analysis to interpret and support a political position;
4. research contemporary political issues drawing on diverse sources, including online material; and
5. assess and distinguish between factual and interpretive information.

POLITICAL SCIENCE TMC CORE REQUIREMENTS - COMPLETE 3.0 UNITS

POLS 1	Introduction to United States Government	3.0

POLITICAL SCIENCE TMC LIST A - COMPLETE 9.0 UNITS

Complete any combination totaling at least 9.0 units from the following:

MATH 15	Elementary Statistics	4.0
POLS 2	Introduction to Comparative Government	3.0
POLS 18	Political Theory	3.0
POLS 25	Introduction to International Relations	3.0

POLITICAL SCIENCE TMC LIST B - COMPLETE 6.0 UNITS

Complete any combination totaling at least 6.0 units from the following:

AJ 56	Crime and Criminal Justice in Society	3.0
ANTHRO 2	Cultural Anthropology	3.0
ECON 1	Principles of Macroeconomics	3.0
ECON 2	Principles of Microeconomics	3.0
GEOG 7	Introduction to Human Geography	3.0
HIST 4.1	History of Western Civilization to 1648 C.E.	3.0
HIST 4.2	History of Western Civilization from 1648 C.E.	3.0
HIST 17.1	History of the United States to 1877	3.0
HIST 17.2	United States History from 1877	3.0
HIST 18.1	History of Women in the United States to 1877	3.0
HIST 18.2	History of Women in the United States Since 1877	3.0
HIST 21	Race, Ethnicity and Gender in American Culture	3.0
MATH 15	Elementary Statistics	4.0
POLS 2	Introduction to Comparative Government	3.0
POLS 18	Political Theory	3.0
POLS 25	Introduction to International Relations	3.0
SOC 1	Introduction to Sociology	3.0
SOC 2	Modern Social Problems	3.0
SOCS 12	Environmental Policy and Politics	3.0

PROGRAM REQUIREMENTS NOTES:

A course used to satisfy a requirement in List A can not be used to fulfill the requirements in List B.

PRE-ALLIED HEALTH (AS)

Program of Study Code: 002011

Term Effective: Fall 2016

24.00 Units

(707) 524-1813

swilson@santarosa.edu (mailto:swilson@santarosa.edu)

PROGRAM REQUIREMENTS:

The Pre-Allied Health major is designed for students intending to transfer to allied health disciplines, such as Nursing, Dental Hygiene, and Physical Therapy Assistant, etc., at two or four-year institutions. (Please consult a counselor.)

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate an understanding of the relationship between structure and function by predicting the function of unfamiliar structures based on knowledge of previously studied cells, tissues, and organs;
2. use skills acquired in the human anatomy course to learn new body structures;
3. work safely in a lab or clinical setting with microorganisms;
4. explain pharmaceutical drug actions based on knowledge of physiological mechanisms;
5. apply knowledge of anatomy, microbiology, physiology to more advanced courses required in allied health majors; and
6. apply knowledge of anatomy, microbiology or physiology in the clinical practice of nursing or dental hygiene.

PRE-ALLIED HEALTH MAJOR REQUIREMENTS - COMPLETE 23.0 UNITS

ANAT 1	General Human Anatomy	5.0
BIO 10	Introduction to Principles of Biology	4.0
CHEM 60	Chemistry for the Allied Health Sciences	5.0
PHYSIO 1	Human Physiology	5.0

Complete any combination totaling at least 4.0 units from the following:

MICRO 5	General Microbiology	5.0
MICRO 60	Fundamentals of Microbiology	4.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

PSYCHOLOGY (AA)

Program of Study Code: 001038

Term Effective: Fall 2019

21.00 Units

(707) 527-4613

bflyswithhawks@santarosa.edu (mailto:bflyswithhawks@santarosa.edu)

PROGRAM REQUIREMENTS:

Students completing the Psychology major at Santa Rosa Junior College will develop skills and knowledge consistent with the study of Psychology in a global, multicultural, and comparative context. The successful student will have mastered the reading, writing, and research skills essential to Psychological inquiry and exposition. Completion of the program will provide the orientation and background necessary for success in the major at the university level and will provide a foundation for lifelong learning.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify the major theoretical approaches, theorists, and historical trends in psychology;
2. understand and use basic research methods in psychology, including design, data analysis and interpretation;
3. apply psychological knowledge to personal, social, and cultural issues;
4. develop interpersonal skills to foster an understanding of self and others in a diverse cultural context;
5. apply critical thinking to psychological theories, research, and personal assumptions; and
6. articulate thoughts effectively in written and oral communication.

PSYCHOLOGY MAJOR REQUIREMENTS - COMPLETE 9.0 UNITS

PSYCH 1A	General Psychology	3.0
PSYCH 1B	Introduction to Psychological Research Methods	3.0
PSYCH 9	Introduction to Behavioral Sciences Statistics	3.0

PSYCHOLOGY MAJOR RESTRICTED ELECTIVES - COMPLETE 12.0 UNITS

Complete any combination totaling at least 6.0 units from the following:

PSYCH 3	Human Sexuality	3.0
PSYCH 4	Child and Adolescent Psychology	3.0
PSYCH 5	Abnormal Psychology	3.0
PSYCH 30	Social Psychology	3.0
PSYCH 34	The Psychology of Prejudice and Discrimination	3.0

Complete any combination totaling at least 6.0 units from the following:

PSYCH 3	Human Sexuality	3.0
PSYCH 4	Child and Adolescent Psychology	3.0
PSYCH 5	Abnormal Psychology	3.0

PSYCH 7	Theories of Personality	3.0
PSYCH 8	Introduction to Lifespan Psychology	3.0
PSYCH 11	Introduction to Cognitive Psychology	3.0
PSYCH 30	Social Psychology	3.0
PSYCH 35	Psychology of Personal and Social Adjustment	3.0
PSYCH 40	Introduction to Psychology of Gender	3.0
PSYCH 52	Interpersonal Communication	3.0
PSYCH 56	Aging, Dying and Death	3.0
PSYCH 57	Introduction to Sports Psychology	3.0

NOTES:

No course may be used more than once to fulfill a requirement in the major. A grade of "C" or better is required for all major classes.

PSYCHOLOGY (AA-T)

Program of Study Code: 001056

Term Effective: Fall 2019

20.00 Units

(707) 527-4220

jkremer@santarosa.edu (mailto:jkremer@santarosa.edu)

PROGRAM REQUIREMENTS:

Students completing the Associate in Arts for Transfer in Psychology at Santa Rosa Junior College will develop skills and knowledge consistent with the study of Psychology in a global, multicultural, and comparative context. The successful student will have mastered the reading, writing, and research skills essential to psychological inquiry and exposition. Completion of the major will provide the orientation and background necessary for success in psychology at the university level and will provide a foundation for lifelong learning. This major fulfills the transfer model curriculum for the California State University (CSU) campuses.

PSYCHOLOGY FOR TRANSFER REQUIRED - COMPLETE 10.0 UNITS

MATH 15	Elementary Statistics	4.0
PSYCH 1A	General Psychology	3.0
PSYCH 1B	Introduction to Psychological Research Methods	3.0

PSYCHOLOGY LIST A - COMPLETE 4.0 UNITS

Complete any combination totaling at least 4.0 units from the following:

BIO 10	Introduction to Principles of Biology	4.0
BIO 16	Introduction to Biology For Non-Majors	4.0

PSYCHOLOGY LIST B - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

CHLD 10	Child Growth and Development	3.0
PSYCH 4	Child and Adolescent Psychology	3.0
PSYCH 30	Social Psychology	3.0

PSYCHOLOGY LIST C - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

CHLD 10	Child Growth and Development	3.0
PSYCH 3	Human Sexuality	3.0
PSYCH 4	Child and Adolescent Psychology	3.0
PSYCH 5	Abnormal Psychology	3.0
PSYCH 7	Theories of Personality	3.0
PSYCH 10	Introduction to Biological Psychology	3.0
PSYCH 11	Introduction to Cognitive Psychology	3.0
PSYCH 30	Social Psychology	3.0
PSYCH 34	The Psychology of Prejudice and Discrimination	3.0
PSYCH 35	Psychology of Personal and Social Adjustment	3.0
PSYCH 40	Introduction to Psychology of Gender	3.0
PSYCH 52	Interpersonal Communication	3.0
PSYCH 56	Aging, Dying and Death	3.0
PSYCH 57	Introduction to Sports Psychology	3.0

PROGRAM REQUIREMENTS NOTES:

Note: Courses used to satisfy requirements in one category cannot be used to satisfy requirements in another category. Review the TMC template for specific details.

PUBLIC HEALTH SCIENCE (AS-T)

Program of Study Code: 002074

Term Effective: Fall 2018

34.00 Units

(707) 524-1591

ejen@santarosa.edu (mailto:ejen@santarosa.edu)

PROGRAM REQUIREMENTS:

The Public Health Science Associate in Science for Transfer degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs.

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe social, political, and economic issues that impact public health and healthcare delivery systems in the United States.
2. Explain how functional anatomy and physiological regulation affect health and wellness.
3. Describe how behavioral, cultural, and environmental factors impact the health status of individuals and diverse populations.
4. Demonstrate effective communication and problem-solving skills necessary to improve health inequalities, such as advocacy, community organizing, and/or policy change.

PUBLIC HEALTH SCIENCE REQUIREMENTS - COMPLETE 34.0 UNITS

HLE 5	Personal Health and Wellness	3.0
HLC 52	Introduction to Public Health	3.0
MATH 15	Elementary Statistics	4.0
BIO 10	Introduction to Principles of Biology	4.0
CHEM 42	Introductory General Chemistry	4.0
PSYCH 1A	General Psychology	3.0
ANAT 1	General Human Anatomy	5.0
PHYSIO 1	Human Physiology	5.0

Complete any combination totaling at least 3.0 units from the following:

ECON 2	Principles of Microeconomics	3.0
ECON 1	Principles of Macroeconomics	3.0
FDNT 60	Nutrition and Physical Fitness	1.0
PSYCH 3	Human Sexuality	3.0
SOC 1	Introduction to Sociology	3.0
PSYCH 8	Introduction to Lifespan Psychology	3.0

RADIOLOGIC TECHNOLOGY (AS)

Program of Study Code: 002008

Term Effective: Fall 2019

93.00 Units

(707) 527-4630

talander@santarosa.edu (mailto:talander@santarosa.edu)

PROGRAM REQUIREMENTS:

The Radiologic Major provides training in the operation of X-ray and computer equipment, performance of radiological procedures, creating and processing radiographs, experience in other advanced imaging modalities, and radiation protection. A minimum of 1,850 clinical hours is required in hospitals and radiology departments affiliated with Santa Rosa Junior College. Elective clinical experience in other modalities is available. The SRJC program, accredited by the Joint Review Committee on Education in Radiologic Technology, is approved by the California State Department of Public Health -Radiologic Health Branch. Upon successful program completion, eligible graduates (contact individual health care agencies for specific criteria and pre-application review process) will be allowed to sit for examinations administered by the American Registry of Radiologic Technologists and the California State Department of Public Health - Radiologic Health Branch.

PROGRAM STUDENT LEARNING OUTCOMES

1. deliver high quality patient care services in Radiology;
2. observe a high level of medical ethics;
3. perform radiographic job duties with professionalism;
4. use effective communication skills;
5. use critical thinking skills to analyze and resolve imaging issues; and
6. demonstrate clinical competency of an entry-level technologist.

PROGRAM SELECTION PROCESS:

Applicants who have completed all of the program prerequisites by the deadline of the application year will be qualified for the lottery selection process. Please contact the Health Science Department for information about entering the program.

RADIOLOGIC TECHNOLOGY PREREQUISITES - COMPLETE 28.0 UNITS

CI 54	Community Engagement Related to Health Care	3.0
CS 5	Computer Literacy	3.0
HLC 160	Medical Terminology	3.0
RADT 100	Survey of Medical Imaging	2.0
ENGL 1A	Reading & Composition	4.0

Complete any combination totaling at least 3.0 units from the following:

ANAT 1	General Human Anatomy	5.0
ANAT 58	Introduction to Human Anatomy	3.0

Complete any combination totaling at least 3.0 units from the following:

PHYSIO 1	Human Physiology	5.0
PHYSIO 58		

Introduction to Human Physiology		3.0

Complete any combination totaling at least 3.0 units from the following:

COMM 7	Intercultural Communication	3.0
COMM 1	Introduction to Public Speaking	3.0
And		
HIST 21	Race, Ethnicity and Gender in American Culture	3.0
or		
COMM 1	Introduction to Public Speaking	3.0
And		
HUMAN 6	American Cultures	3.0
or		
COMM 1	Introduction to Public Speaking	3.0
And		
PSYCH 34	The Psychology of Prejudice and Discrimination	3.0
or		
COMM 1	Introduction to Public Speaking	3.0
And		
SOC 30	Race and Ethnic Relations	3.0
or		
COMM 6	Interpersonal Communication	3.0
And		
HIST 21	Race, Ethnicity and Gender in American Culture	3.0
or		
COMM 6	Interpersonal Communication	3.0
And		
HUMAN 6	Humanities in the United States	3.0
or		
COMM 6	Interpersonal Communication	3.0
And		
PSYCH 34	The Psychology of Prejudice and Discrimination	3.0
or		
COMM 6	Interpersonal Communication	3.0
And		
SOC 30	Race and Ethnic Relations	3.0
or		
COMM 60	Communication Skills	3.0
And		
HIST 21	Race, Ethnicity and Gender in American Culture	3.0
or		

COMM 60	Communication Skills	3.0
And		
HUMAN 6	Humanities in the United States	3.0
or		
COMM 60	Communication Skills	3.0
And		
PSYCH 34	The Psychology of Prejudice and Discrimination	3.0
or		
COMM 60	Communication Skills	3.0
And		
SOC 30	Race and Ethnic Relations	3.0

Complete any combination totaling at least 3.0 units from the following:

MATH 101	Mathematics for the Associate Degree	3.0
MATH 154	Elementary and Intermediate Algebra	8.0
MATH 155	Intermediate Algebra	4.0
MATH 156	Intermediate Algebra for Business and STEM Majors	5.0
MATH 161	Mathematics Preparation for Statistics and Liberal Arts	4.0
PSYCH 9	Introduction to Behavioral Sciences Statistics	3.0

Any higher level (https://mathematics.santarosa.edu/sites/mathematics.santarosa.edu/files/Math%20Sequence%20Chart_2017_18_A math course will satisfy requirement

Complete any combination totaling at least 3.0 units from the following:

PSYCH 1A	General Psychology	3.0
PSYCH 30	Social Psychology	3.0
PSYCH 52	Interpersonal Relations	3.0

RADIOLOGIC TECHNOLOGY REQUIREMENTS - COMPLETE 65.0 UNITS

RADT 60	Introduction to Radiologic Technology	3.0
RADT 61A	Radiographic Positioning 1	4.0
RADT 61B	Radiographic Positioning 2	3.0
RADT 61C	Radiographic Positioning 3	1.0
RADT 63A	Radiation Physics and Medical Imaging Systems	3.0
RADT 63B	Radiobiology Radiation Protection, and Quality Control	3.0
RADT 64	Patient Care in Radiology	3.0
RADT 64L	Patient Care in Radiology Laboratory	2.0

RADT 65	Pathology in Radiology	2.0
RADT 66	Special Modalities	4.0
RADT 68	Preparation for Professional Practice	3.0
RADT 71A	Clinical Experience 1	4.5
RADT 71B	Clinical Experience 2	6.0
RADT 71C	Clinical Experience 3	2.5
RADT 71D	Clinical Experience 4	8.5
RADT 71E	Clinical Experience 5	8.5
RADT 71F	Clinical Experience 6	4.0

PROGRAM REQUIREMENTS NOTES:

Program prerequisites are put in place by external accreditation and regulatory agencies and are not subject to catalog rights. Starting Fall 2009, only college transferable reading and composition courses (English 1A or equivalent) will be accepted to fulfill the English prerequisite requirement. Completion of all prerequisites must show on official transcripts. Listing of articulated classes are available for review: Articulation Agreements **(https://articulation.santarosa.edu/california-community-colleges). (https://articulation.santarosa.edu/california-community-colleges)**

Starting in 2015, the American Registry of Radiologic Technologists will require an Associate Degree as eligibility to sit for the licensing examination. Therefore, the SRJC Radiologic Technology Program strongly urges all applicants who do not possess an Associate Degree or higher, to complete all of the general education requirements for an Associate of Science degree prior to admission to the program in Fall 2013. The program prerequisites only fulfill the graduation requirements in areas A, B, C, D, and G for students using the Option A General Education Pattern.

Recency: applies to Anatomy and Medical Terminology only. Beginning with the application cycle for students targeting Fall 2019 and subsequent admission years, recency will no longer be required for Intermediate Algebra or Physiology

NOTES:

Accepted students must successfully pass a criminal background check (paid by students) that will require social security numbers.

All program classes and prerequisites taken in conjunction with this program must be completed with a letter grade of 'C' or better.

For students interested in pursuing mammography, we offer RADT 102 - Mammography for Radiologic Technology

RELIGIOUS STUDIES (AA)

Program of Study Code: 001041

Term Effective: Fall 2019

19.00 Units

(707) 527-1710

ethomson@santarosa.edu (mailto:ethomson@santarosa.edu)

PROGRAM REQUIREMENTS:

The Religious Studies Associate of Arts Degree Program prepares students for all and any transfer options in the area of religious studies such as upper division degrees in religious studies, biblical studies, archeology, theological or ministry paths, history, literature, humanities and interdisciplinary studies.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate greater awareness of global religious traditions and their origins;
2. apply the appropriate lexicon to discuss religions in socio-historical contextual terms;
3. demonstrate skills in critical analysis of religious claims; and
4. identify the major world religions and their major branches in order to distinguish among different types of religions.

RELIGIOUS STUDIES REQUIREMENTS - COMPLETE 18.0 UNITS

RELS 1	Introduction to Religious Studies	3.0

Complete any combination totaling at least 3.0 units from the following:

HUMAN 8	Comparative Mythology	3.0
RELS 2	World Religions	3.0

Complete any combination totaling at least 6.0 units from the following:

PHIL 11	Introduction to Asian Philosophy	3.0
RELS 3	History of God	3.0
RELS 7	Wisdom Religions of Asia	3.0
RELS 8	Buddhism	3.0
RELS 15	Islam	3.0
RELS 21	The Hebrew Bible	3.0
RELS 22	Early Christian Literature	3.0
RELS 32	Religion in America	3.0

Complete any combination totaling at least 6.0 units from the following:

ANTHRO 2	Cultural Anthropology	3.0
ANTHRO 3	Prehistory & Archaeology	3.0
ANTHRO 31	Mesoamerican Origins of Latino Culture	3.0
ANTHRO 32	Native Cultures of North America	3.0
ART 2.1	History & Aesthetic Appreciation of Prehistoric - Gothic Art	3.0
ART 2.2	History and Appreciation of Late Gothic to Impressionist Art	3.0
HIST 4.1	History of Western Civilization to 1648 C.E.	3.0
HIST 4.2	History of Western Civilization from 1648 C.E.	3.0
HIST 17.1	History of the United States to 1877	3.0

HIST 18.1	History of Women in the United States to 1877	3.0
PHIL 6	Introduction to Philosophy	3.0
PHIL 7	Contemporary Moral Issues	3.0
PHIL 20	History of Western Philosophy: Ancient and Medieval	3.0
PHIL 21	History of Western Philosophy: Modern	3.0
PSYCH 56	Aging, Dying and Death	3.0
RELS 6.66	History of Satan	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

SOCIAL AND BEHAVIORAL SCIENCES (AA)

Program of Study Code: 001023

Term Effective: Fall 2019

18.00 Units

(707) 527-4763

cprince@santarosa.edu (mailto:cprince@santarosa.edu)

PROGRAM REQUIREMENTS:

The Social and Behavioral Sciences major is intended for the student who wants to explore the social and behavioral sciences as a foundation of lifelong learning, or as an introduction to the related fields of Sociology, Psychology, Anthropology, Economics, History, Social Science, and/or Political Science. This major is broad and exploratory in nature and does not necessarily fulfill the lower division requirements for transfer in a specific discipline.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify major theoretical approaches across a variety of disciplines within the Social and Behavioral Sciences (i.e Psychology, Sociology, Anthropology, History, Political Science and Economics);
2. employ critical thinking and writing skills in the analysis of complex issues; and
3. develop a global world view that encompasses diverse perspectives.

SOCIAL AND BEHAVIORAL SCIENCES REQUIREMENTS - COMPLETE 18.0 UNITS

Complete any combination totaling at least 18.0 units from the following:

AGBUS 7	Agricultural Economics	3.0

AJ 25	Community Relations	3.0
AJ 56	Crime and Criminal Justice in Society	3.0
ANTHRO 2	Cultural Anthropology	3.0
ANTHRO 3	Introduction to Archaeology	3.0
ANTHRO 4	Ancient Peoples and Society	3.0
ANTHRO 21	American Folklore and Folklife	3.0
ANTHRO 30	Anthropology of Globalization	3.0
ANTHRO 32	Native Cultures of North America	3.0
ANTHRO 34	Native Cultures of California	3.0
BAD 10	American Business in Its Global Context	3.0
BEHSC 49	Independent Study in Behavioral Sciences	3.0
CHLD 10	Child Growth and Development	3.0
CHLD 68	Working With Children and Families in a Diverse Society	3.0
CHLD 90.1	Child, Family, Community Interrelationships	3.0
COMM 7	Intercultural Communication	3.0
COMM 10	Introduction to Communication Studies	3.0
COUN 20	Sex and Gender	3.0
COUN 74	Identity and Cultural Diversity	3.0
ECON 1	Principles of Macroeconomics	3.0
ECON 2	Principles of Microeconomics	3.0
ECON 12	Introduction to Economics and the Environment	3.0
GEOG 3	World Regional Geography	3.0
GEOG 7	Introduction to Human Geography	3.0
HIST 5	History of the Modern Middle East	3.0
HIST 8.1	History of Latin America from Pre-Columbian to 1830	3.0
HIST 8.2	History of Latin America from 1830 to Present	3.0
HIST 17.1	History of the United States to 1877	3.0
HIST 17.2	United States History from 1877	3.0
HIST 18.1	History of Women in the United States to 1877	3.0
HIST 18.2	History of Women in the United States Since 1877	3.0
HIST 20	History of the US Since 1945	3.0
HIST 21		

Race, Ethnicity and Gender in American Culture		3.0
HIST 22	History of California	3.0
HIST 26	History of Chicanos and Latinos from 1848 to Present	3.0
HIST 30	African American History	3.0
HIST 33	History of Mexico	3.0
POLS 1	Introduction to United States Government	3.0
POLS 2	Introduction to Comparative Government	3.0
POLS 18	Political Theory	3.0
POLS 25	Introduction to International Relations	3.0
PSYCH 1A	General Psychology	3.0
PSYCH 1B	Introduction to Psychological Research Methods	3.0
PSYCH 3	Human Sexuality	3.0
PSYCH 4	Child and Adolescent Psychology	3.0
PSYCH 5	Abnormal Psychology	3.0
PSYCH 7	Theories of Personality	3.0
PSYCH 8	Introduction to Lifespan Psychology	3.0
PSYCH 9	Introduction to Behavioral Sciences Statistics	3.0
PSYCH 10	Introduction to Biological Psychology	3.0
PSYCH 30	Social Psychology	3.0
PSYCH 34	The Psychology of Prejudice and Discrimination	3.0
PSYCH 57	Introduction to Sports Psychology	3.0
SOC 1	Introduction to Sociology	3.0
SOC 2	Modern Social Problems	3.0
SOC 3	Self and Society	3.0
SOC 5	Sociological Research Methods	3.0
SOC 10	Close Relationships and Family Life	3.0
SOC 30	Race and Ethnic Relations	3.0

NOTES:

Social Science Department website (https://socialscience.santarosa.edu)

Behavioral Science Department website (https://behavioralsciences.santarosa.edu/)

SOCIAL JUSTICE STUDIES (AA-T)

Program of Study Code: 001073

Term Effective: Fall 2017

18.00 Units

(707) 527-4613

bflyswithhawks@santarosa.edu (mailto:bflyswithhawks@santarosa.edu)

PROGRAM REQUIREMENTS:

This Associate in Arts for Transfer in Social Justice Studies is designed to provide a clear pathway to a CSU major and baccalaureate programs in Social Justice, Ethnic Studies, Women or Gender Studies, or to programs focused on ethnic groups such as Chicano/Latino Studies, African American Studies, Asian American Studies, or Native American Studies. Social Justice Studies explores the experiences of individuals from different interdisciplinary studies of different groups and the complex relations and phenomena of culture, power, oppression, equity, and equality from the perspective of what is fair and just. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree: (1) Complete 60 semester units that are eligible for transfer to the California State University, including both of the following: (A) The Inter-segmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth requirements; and (B) A minimum of 60 semester units as required for the Associate in Arts for Transfer in Social Justice Studies major. (2) Obtain an overall minimum grade point average of 2.0 (3) Earn a grade of C or better in all courses required for the Associate in Arts for Transfer in Social Justice Studies major.

PROGRAM STUDENT LEARNING OUTCOMES

1. Utilize the psychology and/or sociology of prejudice and discrimination to analyze examples of discrimination and oppression in historical and cultural frameworks.
2. Utilize the principles of Women and Gender Studies to identify, explore, and analyze examples of prejudice, discrimination, or oppression of women in historical or cultural frameworks.
3. Utilize statistics or research methods in psychology or sociology to better analyze issues related to Social Justice Studies.
4. Analyze issues in political sciences, arts and humanities, and behavioral and social sciences through a social justice perspective.

SOCIAL JUSTICE STUDIES REQUIRED CORE - COMPLETE 9.0 UNITS

PSYCH 40	Introduction to Psychology of Gender	3.0

Complete any combination totaling at least 3.0 units from the following:

PSYCH 34	The Psychology of Prejudice and Discrimination	3.0
SOC 30	Race and Ethnic Relations	3.0

Complete any combination totaling at least 3.0 units from the following:

COUN 20	Sex and Gender	3.0
HIST 18.2	History of Women in the United States Since 1877	3.0
HIST 21	Race, Ethnicity and Gender in American Culture	3.0
HIST 26	History of Chicanos and Latinos from 1848 to Present	3.0
HIST 30	African American History	3.0
HIST 33	History of Mexico	3.0
PSYCH 34	The Psychology of Prejudice and Discrimination	3.0
PSYCH 40	Introduction to Psychology of Gender	3.0
SOC 30	Race and Ethnic Relations	3.0

SOCIAL JUSTICE STUDIES LIST A (3 COURSES FROM 2+ AREAS, SEE TMC) - COMPLETE 9.0 UNITS

Complete any combination totaling at least 9.0 units from the following:

List A: Select three courses from 2+ areas

Area 1: History or Government

HIST 8.1	History of Latin America from Pre-Columbian to 1830	3.0
HIST 8.2	History of Latin America from 1830 to Present	3.0
HIST 18.1	History of Women in the United States to 1877	3.0
HIST 18.2	History of Women in the United States Since 1877	3.0
HIST 21	Race, Ethnicity and Gender in American Culture	3.0
HIST 22	History of California	3.0
HIST 26	History of Chicanos and Latinos from 1848 to Present	3.0
HIST 30	African American History	3.0
HIST 33	History of Mexico	3.0
POLS 1	Introduction to United States Government	3.0

Area 2: Arts and Humanities

ANTHRO 31	Mesoamerican Origins of Latino Culture	3.0
ANTHRO 43	Native American Art and Culture	3.0
ENGL 31	African-American Literature	3.0
ENGL 33		

Chicano/Chicana Arts and Literature		3.0
ENGL 36	Lesbian, Gay, Bisexual,Transgender Arts and Literature	3.0
HUMAN 6	Humanities in the United States	3.0
MUSC 9	Jazz Appreciation	3.0
PHIL 9	Political Philosophy	3.0
PHIL 10	Philosophy of Peace and Nonviolent Action	3.0
RELS 32	Religion in America	3.0
SPAN 4	Intermediate Spanish-Part 2	4.0
THAR 6	Multicultural Perspectives in American Theatre	3.0

Area 3: Social Science

ANTHRO 21	American Folklore and Folklife	3.0
ANTHRO 32	Native Cultures of North America	3.0
ANTHRO 34	Native Cultures of California	3.0
CHLD 68	Working With Children and Families in a Diverse Society	3.0
COMM 7	Intercultural Communication	3.0
COUN 20	Sex and Gender	3.0
COUN 74	Identity and Cultural Diversity	3.0
POLS 18	Political Theory	3.0

Area 4: Quantitative Reasoning and Research Met

Select MATH 15 or PSYCH 9 (not both)

MATH 15	Elementary Statistics	4.0

OR

PSYCH 9	Introduction to Behavioral Sciences Statistics	3.0
PSYCH 1B	Introduction to Psychological Research Methods	3.0

Area 5: Major Preparation

ANTHRO 34	Native Cultures of California	3.0
COMM 7	Intercultural Communication	3.0
COUN 20	Sex and Gender	3.0
ENGL 31	African-American Literature	3.0
ENGL 33	Chicano/Chicana Arts and Literature	3.0
HIST 8.1	History of Latin America from Pre-Columbian to 1830	3.0
HIST 8.2	History of Latin America from 1830 to Present	3.0
HIST 18.2		

History of Women in the United States Since 1877		3.0
HIST 21	Race, Ethnicity and Gender in American Culture	3.0
HIST 26	History of Chicanos and Latinos from 1848 to Present	3.0
HIST 30	African American History	3.0
HUMAN 6	Humanities in the United States	3.0
MUSC 9	Jazz Appreciation	3.0
SOC 30	Race and Ethnic Relations	3.0
SPAN 4	Intermediate Spanish-Part 2	4.0

NOTES:

For List A Requirements: Select three courses from at least two areas listed on the TMC Template (SR_ProgramsOfStudy.aspx?MCID=1776&DocType=2).

A course used to satisfy a requirement in one category can not be used to fulfill the requirements in another category.

SOCIOLOGY (AA-T)

Program of Study Code: 001055

Term Effective: Fall 2017

18.00 Units

(707) 522-2645

mdasgupta@santarosa.edu (mailto:mdasgupta@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Arts for Transfer in Sociology degree provides students with an introduction to and overview of the field of Sociology. Students learn the major theories and research methods used by sociologists, as well as develop the ability to analyze critical aspects of contemporary society. This major fulfills the Transfer Model Curriculum for transfer to California State University (CSU) campuses.

PROGRAM STUDENT LEARNING OUTCOMES

1. Explain and apply the major theories, concepts, and methodologies of sociology;
2. analyze society and social groups using a sociological perspective; and
3. evaluate structures and policies of major American social institutions.

SOCIOLOGY FOR TRANSFER REQUIRED CORE - COMPLETE 3.0 UNITS

SOC 1	Introduction to Sociology	3.0

SOCIOLOGY FOR TRANSFER ADDITIONAL REQUIRED CORE - COMPLETE 6.0 UNITS

Complete any combination totaling at least 6.0 units from the following:

MATH 15	Elementary Statistics	4.0
And		
SOC 2	Modern Social Problems	3.0
or		
MATH 15	Elementary Statistics	4.0
And		
SOC 5	Sociological Research Methods	3.0
or		
MATH 15	Elementary Statistics	4.0
And		
PSYCH 1B	Introduction to Psychological Research Methods	3.0
or		
SOC 2	Modern Social Problems	3.0
And		
SOC 5	Sociological Research Methods	3.0
or		
SOC 2	Modern Social Problems	3.0
And		
PSYCH 1B	Introduction to Psychological Research Methods	3.0

SOCIOLOGY FOR TRANSFER LIST A - COMPLETE 6.0 UNITS

Complete any combination totaling at least 6.0 units from the following:

AJ 56	Crime and Criminal Justice in Society	3.0
MATH 15	Elementary Statistics	4.0
PSYCH 1B	Introduction to Psychological Research Methods	3.0
PSYCH 30	Social Psychology	3.0
SOC 2	Modern Social Problems	3.0
SOC 5	Sociological Research Methods	3.0
SOC 10	Close Relationships and Family Life	3.0
SOC 30	Race and Ethnic Relations	3.0

SOCIOLOGY FOR TRANSFER LIST B - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

AJ 56	Crime and Criminal Justice in Society	3.0
ANTHRO 2	Cultural Anthropology	3.0
GEOG 7	Introduction to Human Geography	3.0
HIST 21		

Race, Ethnicity and Gender in American Culture		3.0
MATH 15	Elementary Statistics	4.0
PSYCH 1A	General Psychology	3.0
PSYCH 1B	Introduction to Psychological Research Methods	3.0
PSYCH 30	Social Psychology	3.0
SOC 2	Modern Social Problems	3.0
SOC 3	Self and Society	3.0
SOC 5	Sociological Research Methods	3.0
SOC 10	Close Relationships and Family Life	3.0
SOC 30	Race and Ethnic Relations	3.0

PROGRAM REQUIREMENTS NOTES:

A course used to satisfy a requirement in one category can not be used to fulfill the requirements in another category.

SPANISH (AA)

Program of Study Code: 001001

Term Effective: Fall 2018

18.00 Units

(707) 522-2687

ltracy@santarosa.edu (mailto:ltracy@santarosa.edu)

PROGRAM REQUIREMENTS:

A student completing the Spanish major will have a solid background in reading, writing, speaking and comprehending spanish and will have developed both an understanding and appreciation of Hispanic cultures. The student will be prepared for upperdivision coursework in Spanish at a four-year university or, should he/she pursue other fields of study, will have achieved a level of competence in Spanish that will both enhance job performance and increase marketability in professions where knowledge of Spanish is either necessary or advantageous.

PROGRAM STUDENT LEARNING OUTCOMES

1. Converse in Spanish with native speakers of Spanish on a full range of topics, including but not limited to, personal and family lives, school or work related topics, current events, historical, political and cultural perspectives with effective use of grammar and comprehensible pronunciation;
2. demonstrate an understanding of authentic texts in Spanish on a wide range of topics, including but not limited to, newspaper and magazine articles, short stories, letters, poems, essays by identifying and explaining the key points and themes both orally and in writing;

3. write cogent essays or term papers in grammatically correct Spanish formulating and developing ideas on a full range of topics, including but not limited to, history, culture, literary analysis and current events;
4. demonstrate cultural awareness and appreciation of the Spanish & Spanish American experience by examining, identifying and analyzing the values, attitudes and traditions that characterize such experience; and
5. succeed in upper division Spanish coursework at a four-year university and/or function in a professional setting where the use of Spanish is an asset.

SPANISH MAJOR REQUIREMENTS - COMPLETE 8.0 UNITS

Complete any combination totaling at least 4.0 units from the following:

SPAN 3	Intermediate Spanish-Part One	4.0
SPAN 41	Intermediate Spanish for Spanish Speakers	4.0
SPAN 4	Intermediate Spanish - Part 2	4.0

SPANISH MAJOR RESTRICTED ELECTIVES - COMPLETE 9.0 UNITS

Complete any combination totaling at least 9.0 units from the following:

ANTHRO 30	Anthropology of Globalization	3.0
ANTHRO 31	Mesoamerican Origins of Latino Culture	3.0
ENGL 25	Introduction to Language Study	3.0
ENGL 33	Chicano/Chicana Arts and Literature	3.0
HIST 8.1	History of Latin America from Pre-Columbian to 1830	3.0
HIST 8.2	History of Latin America from 1830 to Present	3.0
HIST 21	Race, Ethnicity and Gender in American Culture	3.0
HIST 26	History of Chicanos and Latinos from 1848 to Present	3.0
HIST 33	History of Mexico	3.0
INTDIS 4	Culture & Values in Latin America & the Caribbean	3.0
SPAN 1	Elementary Spanish-Part 1	4.0
SPAN 2	Elementary Spanish-Part 2	4.0
SPAN 40	Introductory Spanish for Spanish Speakers	4.0
SPAN 50A	Conversation for Beginners-Part 1	3.0
SPAN 50B	Conversation for Beginners-Part 2	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

SPANISH (AA-T)

Program of Study Code: 001068

Term Effective: Fall 2018

35.00 Units

(707) 522-2687

ltracy@santarosa.edu (mailto:ltracy@santarosa.edu)

PROGRAM REQUIREMENTS:

A student completing the Associate in Arts in Spanish for Transfer will have a solid background in reading, writing, speaking, and comprehending Spanish and will have developed both an understanding and appreciation of Hispanic cultures.

PROGRAM STUDENT LEARNING OUTCOMES

1. converse in Spanish with native speakers of Spanish on a full range of topics, including but not limited to, personal and family lives, school or work related topics, current events, historical, political and cultural perspectives with effective use of grammar and comprehensible pronunciation;
2. demonstrate an understanding of authentic texts in Spanish on a wide range of topics, including but not limited to, newspaper and magazine articles, short stories, letters, poems, essays by identifying and explaining the key points and themes both orally and in writing;
3. write cogent essays or term papers in grammatically correct Spanish formulating and developing ideas on a full range of topics, including but not limited to, history, culture, literary analysis and current events;
4. demonstrate cultural awareness and appreciation of the Spanish & Spanish American experience by examining, identifying and analyzing the values, attitudes and traditions that characterize such experience; and
5. succeed in upper division Spanish coursework at a four-year university and/or function in a professional setting where the use of Spanish is an asset.

SPANISH FOR TRANSFER CORE REQUIREMENTS - COMPLETE 16.0 UNITS

SPAN 1	Elementary Spanish-Part 1	4.0

Complete any combination totaling at least 4.0 units from the following:

SPAN 2	Elementary Spanish-Part 2	4.0
SPAN 40	Introductory Spanish for Spanish Speakers	4.0

Complete any combination totaling at least 4.0 units from the following:

SPAN 3	Intermediate Spanish-Part One	4.0
SPAN 41	Intermediate Spanish for Spanish Speakers	4.0
SPAN 4	Intermediate Spanish-Part 2	4.0

SPANISH FOR TRANSFER LIST A REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ANTHRO 31	Mesoamerican Origins of Latino Culture	3.0
ENGL 33	Chicano/Chicana Arts and Literature	3.0
FREN 1	Elementary French-Part 1	4.0
FREN 2	Elementary French-Part 2	4.0
FREN 3	Intermediate French-Part 1	4.0
FREN 4	Intermediate French-Part 2	4.0
HIST 8.1	History of Latin America from Pre-Columbian to 1830	3.0
HIST 8.2	History of Latin America from 1830 to Present	3.0
HIST 26	History of Chicanos and Latinos from 1848 to Present	3.0
HIST 33	History of Mexico	3.0
INTDIS 4	Culture & Values in Latin America & the Caribbean	3.0
ITAL 1	Elementary Italian-Part 1	4.0
ITAL 2	Elementary Italian-Part 2	4.0
ITAL 3	Intermediate Italian-Part 1	4.0
ITAL 4	Intermediate Italian-Part 2	4.0
SPAN 50C	Intermediate Conversation	3.0

NOTES:

Important Note for Students: Please use the TMC Template link above to review options for Substitution Courses: If a student places out of any core course(s) and is not awarded units for that course, the student will need to take additional units to compensate for the course/units required to reach at least 18 total units in the major (Title 5 regulations). Course substitutions are made at the discretion of the local college and may or may not be delineated in the local degree. Suggested substitutions include courses in List A. Additional suggested course substitutions are contained in the finalized Transfer Model Curriculum (TMC). The following courses have been identified as options: Any course from List A OR; ANTHRO 31 Anthropology of Globalization (3 units) or; ENGL 25 Introduction to Language Study (3 units) or; HIST 21 Race, Ethnicity and Gender in American Culture (3 units) or; SPAN 40 Introductory Spanish for Spanish Speakers (4 units) or; SPAN 41 Intermediate Spanish for Spanish Speakers (4 units)

STUDIO ARTS (AA-T)

Program of Study Code: 001062

Term Effective: Fall 2018

27.00 Units

(707) 527-4397

hfuchigami@santarosa.edu (mailto:hfuchigami@santarosa.edu)

PROGRAM REQUIREMENTS:

This Associate in Arts for Transfer in Studio Art is designed for students who are pursuing a degree in Studio Art, including the fields of Painting and Drawing, Printmaking, Photography, Ceramics, Sculpture, and related disciplines. The Studio Arts Associate in Arts for Transfer degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree. (1) Complete 60 semester units that are eligible for transfer to the California State University, including both of the following: (A) The Inter-segmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth requirements; and (B) A minimum of 26 semester units as required for the Associate in Arts for Transfer in Studio Art (2) Obtain an overall minimum grade point average of 2.0 (3) Earn a grade of C or better in all courses required for the Associate in Arts for Transfer in Studio Art.

PROGRAM STUDENT LEARNING OUTCOMES

1. Synthesize and apply visual principles in creating works of art;
2. Articulate perception and awareness of fine art and applied design concepts;
3. Develop a vocabulary to discuss art in aesthetic terms;
4. Demonstrate skills in visual analysis by identifying specific formal elements in works of art;
5. Demonstrate appropriate use of art tools, materials and processes;
6. Achieve greater awareness of global and cultural traditions; and
7. Create a portfolio of fine art and designs.

STUDIO ART FOR TRANSFER CORE REQUIREMENTS - COMPLETE 15.0 UNITS

ART 2.2	History and Appreciation of Late Gothic to Impressionist Art	3.0
ART 2.3	History and Appreciation of Modern Art	3.0
ART 3	Introduction to Art and Design	3.0
ART 5	Three Dimensional Design	3.0
ART 7A	Drawing and Composition 1	3.0

STUDIO ART FOR TRANSFER LIST A - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ART 1.1	World Art History to 1500	3.0
ART 1.2	World Art History Since 1500	3.0
ART 2.1	History and Appreciation of Prehistoric to Gothic Art	3.0

STUDIO ART FOR TRANSFER LIST B - COMPLETE 9.0 UNITS

Complete any combination totaling at least 9.0 units from the following:

ART 4	Principles of Color	3.0
ART 7B	Drawing and Composition 2	3.0

ART 12	Figure Drawing	3.0
ART 13	Watercolor	3.0
ART 14A	Beginning Painting	3.0
ART 14B	Intermediate Painting	3.0
ART 19	Elementary Photography	3.0
ART 21	Intermediate Black and White Photography	3.0
ART 24	Introduction to the Art of Printmaking	3.0
ART 27A	Beginning Screen Printing	3.0
ART 27B	Intermediate Screen Printing	3.0
ART 28A	Beginning Etching	3.0
ART 28B	Intermediate Etching	3.0
ART 31A	Beginning Ceramics	3.0
ART 31B	Intermediate Ceramics	3.0
ART 33A	Beginning Sculpture	3.0
ART 33B	Intermediate Sculpture	3.0
ART 34A	Ceramic Sculpture	3.0

SURVEYING TECHNOLOGY (AS)

Program of Study Code: 002017

Term Effective: Fall 2017

26.50 Units

(707) 527-4603

rparks@santarosa.edu (mailto:rparks@santarosa.edu)

PROGRAM REQUIREMENTS:

The Surveying Technology program prepares students for a variety of technical positions in the surveying and mapping professions. The program recommended course sequence is set up to allow the student to progress through four semesters and achieve a Certificate of Achievement or an Associate's Degree. This program also prepares students to transfer to university to further their studies in surveying or geomatics.

PROGRAM STUDENT LEARNING OUTCOMES

1. Define and describe land surveying terminology, methods, procedures, standards and technology;
2. perform basic mathematical, computer and statistical computations related to location, elevation, grade, distance, direction, area, and volume;
3. communicate clearly and effectively in oral, written and graphic formats;
4. prepare basic land surveying maps, plats, documents and drawings using computer-aided drafting and geographic information systems technology;
5. operate terrestrial and global positioning surveying instruments for various types of surveys;and

6. research, file, retrieve, analyze, locate and prepare basic descriptions of land, drawings, maps, plats, documents, records, reports and correspondence related to land surveying.

SURVEYING TECHNOLOGY CORE REQUIREMENTS - COMPLETE 25.5 UNITS

GIS 40	Introduction to Geographic Information Systems (GIS)	3.0
APTECH 191	Problem Solving in Civil Engineering Technology	3.0
CEST 51	Civil Drafting Technology	3.0
CEST 192	Non-Technical Skills for the Civil Engineering Technician	1.5
SURV 53	Route Surveying & Design	4.0
SURV 56	Introduction to GPS Land Surveying	4.0
SURV 58	Evidence and Procedures for Boundary Determination	3.0
SURV 60	Introduction to Plane Surveying	4.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

This program was formerly named "Civil &Surveying Technology: Surveying"

SUSTAINABLE AGRICULTURE (AS)

Program of Study Code: 002031

Term Effective: Fall 2017

26.00 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Sustainable Agriculture major is designed to train farmers and gardeners in the techniques of sustainable food production. It provides a foundation in plant and soil science, integrated pest management, and ecological agriculture, and emphasizes the "how to" aspects of organic gardening and farming, including tillage, compost production, and crop planning and production.

PROGRAM STUDENT LEARNING OUTCOMES

1. Plan and manage diverse crop farming enterprises based on ecological management practices.
2. Apply scientific literacy to the management of agricultural systems.
3. Identify and pursue appropriate market channels for vegetable and fruit crops.
4. Utilize appropriate tools and techniques for the propagation, maintenance, and harvest of organically grown crops.

SUSTAINABLE AGRICULTURE REQUIREMENTS - COMPLETE 25.0 UNITS

AGMEC 50	Agricultural Machinery and Equipment Skills	3.0
AGRI 20	Introduction to Plant Science	3.0
AGRI 60	Soil & Plant Nutrition	3.0
AGRI 70	Integrated Pest Management	3.0
SUSAG 50	Introduction to Sustainable Agriculture	3.0
SUSAG 160	Direct Farm Marketing	2.0
SUSAG 109	Organic Crop Planning and Production	4.0

Complete any combination totaling at least 4.0 units from the following:

AGRI 56	Agricultural Enterprise Project	4.0
AGRI 98	Independent Study in Agriculture	3.0
ANSCI 153	Sustainable Agriculture Production Systems with Animals	3.0
SUSAG 64	Warm Season Vegetable Production	2.0
SUSAG 65	Cool Season Vegetable Production	2.0
SUSAG 103	Composting for Commercial Organic Farming and Gardening	1.0
SUSAG 116	Organic Apple Production	1.0
SUSAG 117	Organic Fruit Tree & Berry Production	1.5
SUSAG 118	Olive Oil Production, Processing & Sensory Evaluation	1.0
SUSAG 119	Specialty Crop Production	2.0
SUSAG 120	Organic Gardening and Food Production	2.0
SUSAG 153	Community Supported Agriculture	3.0
SUSAG 163	Community Supported Agriculture Summer	2.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

NOTES:

The degree will be awarded upon completion of all major requirements with a grade of "C" or better.

THEATRE ARTS (AA)

Program of Study Code: 002057

Term Effective: Fall 2016

19.00 Units

(707) 527-4248

lmccauley@santarosa.edu (mailto:lmccauley@santarosa.edu)

PROGRAM REQUIREMENTS:

The Theatre Arts Major is designed for students who are pursuing transfer majors in the Theatre Arts. It provides a basic foundation in theatre history and literature, "hands on experience" in several theatre arts disciplines including Acting, Stagecraft and Costuming, and cultural and historical background necessary to understanding the Theatre Arts. The major may be of interest to those seeking a foundation in related disciplines, such as television, film, and other media. The major may also be of interest to those seeking a foundation for lifelong learning as well.

PROGRAM STUDENT LEARNING OUTCOMES

1. Develop self-awareness and confidence through creative expression;
2. collaborate and effectively communicate in a theatre setting;
3. demonstrate an understanding of time management, commitment, follow-through, and responsibility to achieve a common goal in a theatre setting;
4. creatively analyze, critique, and interpret works of theatrical art;
5. identify, summarize, compare and contrast the principal movements in World theatre history and literature;
6. serve in a production position to gain understanding of the collaborative and complex nature of a live performance;
7. demonstrate an understanding of and empathy for the racial, ethnic, and cultural diversity of U.S. and World theatre; and
8. utilize current theatrical technology.

THEATRE ARTS MAJOR REQUIREMENTS - COMPLETE 18.0 UNITS

THAR 1	World Theatre Through Time	3.0
THAR 6	Multicultural Perspectives in American Theatre	3.0
THAR 10A	Introduction to Acting	3.0
THAR 20	Introduction to Stagecraft	3.0
THAR 25.2	Production Lab: Running Crew	3.0
THAR 21A	Introduction to Costume Tech	3.0
THAR 25.1	Production Lab: Costume Crew	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10

Introduction to Information Literacy	1.0

NOTES:

1. All students enrolled in the major program will be assigned a faculty advisor who will meet with them regularly to monitor progress.

2. The type of position and number of productions a student will work on during a semester determines the number of units to be taken for THAR 25.1 and THAR 25.2

THEATRE ARTS (AA-T)

Program of Study Code: 001067

Term Effective: Fall 2017

18.00 Units

(707) 527-4248

lmccauley@santarosa.edu (mailto:lmccauley@santarosa.edu)

PROGRAM REQUIREMENTS:

The Associate in Arts for Transfer in Theatre Arts is designed for students who are pursuing a baccalaureate degree. It provides a basic foundation in theatre history and literature, hands-on experience in several theatre arts disciplines including Acting, Stagecraft and Costuming, and cultural and historical background necessary to understanding the Theatre Arts. The Theatre Arts Associate in Arts for Transfer degree is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an ADT are guaranteed admission with junior standing somewhere in the CSU system. This priority does not guarantee admission to specific majors or campuses. Current and prospective community college students are encouraged to meet with a counselor to develop an educational plan that best meets their goals and needs. Students will have to fulfill the following requirements to earn this degree. (1) Complete 60 semester units that are eligible for transfer to the California State University, including both of the following: (A) The Inter-segmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth requirements; and (B) A minimum of 18 semester units as required for the Associate in Arts for Transfer in Theatre Arts major. (2) Obtain an overall minimum grade point average of 2.0 (3) Earn a grade of C or better in all courses required for the Associate in Arts for Transfer in Theatre Arts major.

PROGRAM STUDENT LEARNING OUTCOMES

1. demonstrate self-awareness and confidence through creative expression;
2. collaborate and effectively communicate in a theatre setting;
3. demonstrate an understanding of time management, commitment, follow-through, and responsibility to achieve a common goal in a theatre setting;
4. creatively analyze, critique, and interpret works of theatrical art;
5. identify, summarize, compare and contrast the principal movements in world theatre history and literature;

6. demonstrate an understanding of the collaborative and complex nature of a live performance through serving in a production position;
7. demonstrate an understanding and awareness of the racial, ethnic, and cultural diversity of U.S. and world theatre; and
8. utilize current theatrical technology.

THEATRE ARTS FOR TRANSFER CORE REQUIREMENTS - COMPLETE 9.0 UNITS

THAR 1	World Theatre Through Time	3.0
THAR 10A	Introduction to Acting	3.0

Complete any combination totaling at least 3.0 units from the following:

THAR 25	Production Lab: General	3.0
THAR 25.1	Production Lab: Costume Crew	3.0
THAR 25.2	Production Lab: Running Crew	3.0
THAR 25.3	Production Lab: House Staff	3.0
THAR 25.4	Production Lab: Makeup Crew	3.0
THAR 25.5	Production Lab: Construction	3.0

THEATRE ARTS FOR TRANSFER LIST A REQUIREMENTS - COMPLETE 9.0 UNITS

Complete any combination totaling at least 9.0 units from the following:

THAR 10B	Scene Study and Characterization	3.0
THAR 24	Introduction to the Design Process	3.0
THAR 26	Introduction to Theatrical Lighting	3.0
THAR 21A	Introduction to Costume Tech	3.0
THAR 28	Introduction to Costume Design	3.0
THAR 22	Theatrical Makeup Design for Stage and Screen	2.0
And		
THAR 25.4	Production Lab: Makeup Crew	3.0
or		
ENGL 11	Introduction to Dramatic Literature	3.0
or		
THAR 20	Introduction to Stagecraft	3.0
or		
THAR 11.1	Performance: Non-Musical	3.0
or		
THAR 11.2	Performance: Musical	3.0
or		
THAR 25	Production Lab: General	3.0
or		
THAR 25.1	Production Lab: Costume Crew	3.0

or		
THAR 25.2	Production Lab: Running Crew	3.0
or		
THAR 25.3	Production Lab: House Staff	3.0
or		
THAR 25.4	Production Lab: Makeup Crew	3.0
or		
THAR 25.5	Production Lab: Construction	3.0
or		
THAR 81A	Opera and Related Forms in Performance 1	5.0

NOTES:

Select either THAR 21A or THAR 28 for List A requirements. Refer to Transfer Model Curriculum (TMC) (SR_ProgramsOfStudy.aspx?MCID=1742&DocType=2) for more information.

VITICULTURE (AS)

Program of Study Code: 002026

Term Effective: Fall 2019

25.00 Units

(707 527-4987

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Viticulture major focuses on the growing of grapes for winemaking, including seasonal practices in the vineyard and vineyard management. The program also includes enology and winery operations components.

PROGRAM STUDENT LEARNING OUTCOMES

1. Conduct in-depth feasibility studies for new vineyard development, and from the results, prepare comprehensive reports and cost projections appropriate to their planting recommendations;
2. identify and implement sustainable farming practices that will improve fruit quality, provide efficacious pest and disease management, protect natural resources and the environment, and prepare a farming plan that encompasses these practices;
3. research and apply all county, state and federal laws regarding vineyard development and maintenance, worker safety, pesticide use, and environmental protection;
4. demonstrate a working knowledge of the latest technological advances in vineyard management and incorporate current technology into their farming plans and budgets;
5. work cooperatively and effectively with wineries to determine optimum harvest parameters, coordinate the operations required, and negotiate a grape contract;
6. show management and leadership capabilities by effectively training others to perform hands-on vineyard tasks: and

7. contribute to the winegrape industry and participate in professional organizations at the local, state-wide, national and international levels.

VITICULTURE REQUIREMENTS - COMPLETE 24.0 UNITS

AGRI 60	Soil & Plant Nutrition	3.0
VIT 51	Viticulture: Fall Practices	3.0
VIT 52	Viticulture: Spring Practices	3.0
VIT 55	Basic Wine Grape Viticulture	3.0
VIT 60	Vineyard Management	3.0

Complete any combination totaling at least 3.0 units from the following:

AGRI 70	Integrated Pest Management	3.0
VIT 70	Vineyard Pest and Disease Management	3.0

Complete any combination totaling at least 6.0 units from the following:

AGBUS 2	Agricultural Computer Applications	3.0
AGBUS 7	Agricultural Economics	3.0
AGBUS 56	Introduction to Agriculture Business and Management	3.0
AGBUS 61	Agricultural Marketing	3.0
AGMEC 50	Agricultural Machinery and Equipment Skills	3.0
NRM 87	Geographic Info. Systems Applications in Natural Resources	3.0
SPAN 50A	Conversation for Beginners-Part 1	3.0
VIT 1	Introduction to Viticulture, Winemaking, Wines of the World	3.0
VIT 53	Advanced Vineyard Practices for Quality Production	3.0
VIT 54	Viticulture: Summer Practices	1.0
VIT 113	Organic Viticulture	1.5
VIT 114	Sustainable Viticulture	1.5
VIT 120	Vineyard Pruning	0.5
VIT 121	Pruning Techniques for Vine Balance	0.5
VIT 122	Vineyard Canopy Management	1.0
VIT 123	Spring Budding & Grafting	0.5
VIT 124	Vineyard Irrigation and Fertilization	1.0
VIT 130	Grapevine Physiology	1.0
VIT 131	Working with Your Winemaker - Fruit Quality Assurance	1.0
VIT 133	Advances in Viticulture	1.0

WINE 70	Beginning Wine Sensory Analysis	1.5

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

VOCATIONAL NURSING (AS)

Program of Study Code: 002033

Term Effective: Fall 2018

69.00 Units

(707) 527-4290

smeehl@santarosa.edu (mailto:smeehl@santarosa.edu)

PROGRAM REQUIREMENTS:

The program provides training in vocational nursing. A minimum of 1,530 hours of instruction and clinical experience are required by the Board of Vocational Nursing and Psychiatric Technicians (BVNPT). Clinical sites are arranged at local health care facilities and community agencies for a wide range of clinical hands on experiences. The SRJC vocational nursing program is accredited by the California BVNPT. No wages or stipends are paid to students during their training period. Upon successful program completion, eligible graduates will be allowed to sit for NCLEX-PN (National Counsel of Licensed Examiners for Practical/Vocational Nurses) examination required by the BVNPT.Successful passing of the NCLEXPN exam is required to receive the Vocational Nursing license from the California Department of Consumer Affairs.

PROGRAM STUDENT LEARNING OUTCOMES

1. Satisfy the requirements for application to the take the NCLEX-PN Licensure Exam;
2. transition from student to vocational nurse in a variety of health-care settings;
3. practice competently and safely in a variety of health care settings appropriate to entry level vocational nurse;
4. communicate effectively as a member of a multidisciplinary team;
5. maintain high professional and ethical standards of vocational nursing practice;
6. utilize concepts of human growth and development and psycho/socio/cultural needs of clients as they apply to self-care models; and, promote family centered care that is culturally sensitive;
7. assume responsibility for ongoing educational and professional development;
8. provide leadership and effective supervision of unlicensed assistive personnel within the vocational nursing scope of practice;
9. adapt rapidly to new technologies and changing conditions of health care; and
10. grow in the ability to think critically and incorporate new knowledge and skills into the theoretical knowledge base acquired in the VN program.

PROGRAM SELECTION PROCESS:

Applicants who have completed all program pre-requisites by the deadline of the application year will be assigned a cut score designed by the California State Chancellors' office. Qualified applicants will be entered into the random selection process required by the California State Chancellor's office. For more information about the cut score and selection process please contact a Health Science counselor or see the Health Science VN website.

VOCATIONAL NURSING PREREQUISITE REQUIREMENTS - COMPLETE 18.0 UNITS

PSYCH 4	Child and Adolescent Psychology	3.0

Complete any combination totaling at least 3.0 units from the following:

ANAT 1	General Human Anatomy	5.0
ANAT 58	Introduction to Human Anatomy	3.0

Complete any combination totaling at least 3.0 units from the following:

COMM 1	Introduction to Public Speaking	3.0
COMM 5	Group Discussion and Problem Solving	3.0
COMM 6	Interpersonal Communication	3.0
COMM 7	Intercultural Communication	3.0
COMM 60	Communication Skills	3.0

Complete any combination totaling at least 3.0 units from the following:

FDNT 62	Nutrition & Diet Therapy	3.0
FDNT 10	Elementary Nutrition	3.0
And		
FDNT 162	Diet Therapy for Healthcare	2.0

Complete any combination totaling at least 3.0 units from the following:

PHYSIO 1	Human Physiology	5.0
PHYSIO 58	Introduction to Human Physiology	3.0

Complete any combination totaling at least 3.0 units from the following:

PSYCH 1A	General Psychology	3.0
PSYCH 5	Abnormal Psychology	3.0
PSYCH 7	Theories of Personality	3.0
PSYCH 56	Aging, Dying and Death	3.0

VOCATIONAL NURSING REQUIREMENTS - COMPLETE 50.0 UNITS

NRV 51	Fundamentals and Basics of Vocational Nursing	8.0
NRV 51L	Fundamentals & Basic Vocational Nursing Clinical Experience	6.0
NRV 52.1	Intermediate Vocational Nursing	8.0
NRV 52.1L	Intermediate Clinical for Vocational Nursing	4.0
NRV 52.2	Maternal-Child Health Vocational Nursing	2.0
NRV 52.2L		

Maternal-Child Health Vocational Nursing Clinical		2.0
NRV 53	Advanced Vocational Nursing Theory	8.0
NRV 53L	Advanced Vocational Nursing Clinical	6.5
NRV 58A	Fundamental Skills Lab for Vocational Nursing	1.0
NRV 58B	Intermediate Vocational Nursing Skills Lab	1.0
NRV 58C	Advanced Skills Lab for Vocational Nursing	0.5
NR 203	Fundamental Pharmacology for Nursing	2.0
PHARM256.1	Advanced Pharmacology	1.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

PROGRAM REQUIREMENTS NOTES:

- Program requirements are put in place by external accreditation and regulatory agencies (BVNPT) and are not subject to catalog rights.
- Eligibility for ENGL 1A
- Eligibility for MATH 150A
- A clear background check is required by clinical agencies. Accepted students must successfully pass a criminal background check (paid by students) this will require social security numbers.
- Complete all health requirements noted on VN program webpage (paid by students).
- Strongly recommended to meet with a Health Science counselor for guidance with VN certificate or VN Major. Call (707) 527-4451 for Santa Rosa campus or (707) 778-3914 for Petaluma campus to make an appointment.
- Proof of high school graduation or equivalency (HS Diploma, transcript showing Associate Degree or higher degree, GED certificate, document of equivalency of foreign education to US High school graduation or higher.
- Official transcripts showing proof of all pre-requisite course completion, this includes official SRJC transcripts.
- Meet the current Chancellor's cut score for cohort (includes grade in Anatomy/Physiology, GPA)
  - Cut score determined by State Chancellor's calculation pattern.
  - **Important**: Chancellor's cut score based on highest grade, in A&P. Basic requirement Anatomy 58 and Physio 58. **Students should NOT repeat sciences unless critical, points lost in Chancellor's cut score.**
  - All classes and pre-requisites must be completed with a C or better.
  - All qualified candidates assigned a random number per Chancellor's guidelines.
  - First 32 qualified applicants will be selected at random from applicant pool.
  - Other qualified applicants not selected assigned rank number as alternate.
  - Once class starts, alternate status is closed and applicants must reapply for a future class.

NOTES:

All pre-requisites must be completed with a C or better. All program classes must be completed with a C (75%) or better.

VOCATIONAL NURSING TO NURSING (ADN) (AS)

Program of Study Code: 002003

Term Effective: Fall 2018

59.50 Units

(707) 527-4527

avaldez@santarosa.edu (mailto:avaldez@santarosa.edu)

PROGRAM REQUIREMENTS:

The Vocational Nursing to ADN major has been approved by the California Board of Registered Nursing, and prepares the student for entry into the practice of professional registered nursing.

PROGRAM STUDENT LEARNING OUTCOMES

1. Be prepared to practice safe and competent professional nursing care to patients of all ages in a variety of settings;
2. have acquired sufficient knowledge to pass the NCLEX-RN examination for licensure as a registered nurse;
3. demonstrate caring, cultural sensitivity, and acceptance of ethnic, race, religious, gender, age, and lifestyle differences in their professional nursing practice;
4. promote behaviors that lead to high level wellness;
5. be self directed, responsible, resourceful, and resilient professional nurses; and
6. be prepared to transfer to higher level nursing education.

PROGRAM SELECTION PROCESS:

The selection process is in compliance with Title 5 of the California Education Code. Screening is based on a probability of student succeeding in an ADN program. The score is determined by a formula using the following four criteria:

- Overall College GPA within the last 5 years prior to application to the ADN program
- English Composition GPA (English 1A or equivalent)
- Overall GPA in the following prerequisite sciences (anatomy, physiology, microbiology)
- Minus the number of repeats, withdraws, no credits, and incomplete grades in the core sciences (negative predictor of success)

The formula will determine a probability of success score for each student. All students who have this score or higher will be eligible for the program. If there are more students than seats in the program, a random computerized selection process (lottery) will be used to select the individuals entering the program from applicants who met the minimum cut score, along with an alternate list. The alternate list is not kept from year to year. Students not accepted must reapply each year.

Senate bill 1309 legislates that ADN programs are to implement assessment testing of students prior to the student being allowed to start ADN coursework. Beginning Spring 2008, all students who are accepted into the SRJC ADN program will be required to successfully pass an assessment test. Those students who pass the test may enroll in ADN coursework. Those students who do not pass are required to take remedial coursework and successfully complete assessment testing before being allowed to enter the ADN program.

NURSING (ADN) PREREQUISITES REQUIREMENTS - COMPLETE 21.0 UNITS

ANAT 1	General Human Anatomy	5.0
PHYSIO 1	Human Physiology	5.0
ENGL 1A	Reading & Composition	4.0

Complete any combination totaling at least 3.0 units from the following:

FDNT 62	Nutrition & Diet Therapy	3.0
FDNT 10	Elementary Nutrition	3.0

And

FDNT 162	Diet Therapy for Healthcare	2.0

Complete any combination totaling at least 4.0 units from the following:

MICRO 5	General Microbiology	5.0
MICRO 60	Fundamentals of Microbiology	4.0

NURSING (ADN) BOARD OF REGISTERED NURSING REQUIREMENTS - COMPLETE 9.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

COMM 1	Introduction to Public Speaking	3.0
COMM 3	Introduction to Argumentation	3.0
COMM 5	Group Discussion and Problem Solving	3.0
COMM 6	Interpersonal Communication	3.0
COMM 7	Intercultural Communication	3.0
COMM 60	Communication Skills	3.0

Complete any combination totaling at least 3.0 units from the following:

PSYCH 1A	General Psychology	3.0
PSYCH 4	Child and Adolescent Psychology	3.0
PSYCH 7	Theories of Personality	3.0
PSYCH 8	Introduction to Lifespan Psychology	3.0
PSYCH 56	Aging, Dying and Death	3.0

Complete any combination totaling at least 3.0 units from the following:

ANTHRO 2	Cultural Anthropology	3.0
ANTHRO 21	American Folklore and Folklife	3.0
SOC 1	Introduction to Sociology	3.0
SOC 2	Modern Social Problems	3.0
SOC 10	Marriage & the Family	3.0
SOC 30	Race & Ethnic Relations	3.0

VOCATIONAL NURSING TO NURSING (ADN) CORE REQUIREMENTS - COMPLETE 29.5 UNITS

NR 74.1	Professionalism, Nursing Process and Therapy for VN to ADN	1.0

NR 74.2	Psychiatric Nursing For Career Ladder Students	4.5
NR 75C	Nursing Care of the Acutely Ill, Perinatal, & Pediatric PT	12.0
NR 75D	Advanced Care of Acutely Ill	12.0

NOTES:

CHEM 60 and BIO 10 are prerequisites to the Anatomy, Physiology, and Microbiology courses. *Prerequisite science courses without an on campus laboratory component will not be accepted.*

Because basic algebra is recommended for chemistry, students without basic algebra skills are advised to take Elementary Algebra.

Food & Nutrition and Psychology courses must be completed by the end of the first semester of the Nursing program.

Beginning with the class of Fall 2009, only college transferable reading and composition courses (English 1A or equivalent) will be accepted to fulfill the English prerequisite requirement. English 100 and English 100 ESL will no longer be accepted. This change is effective for students who apply Fall 2008 for the Fall 2009 ADN program.

The department recommends that students meet the math competency requirement for the Associate Degree prior to entering the program.

All courses taken in conjunction with this program must be completed with a grade of 'C' or better. *(A C minus in prerequisite courses will not be accepted if the C minus is less than 70%.)*

Updated 3/22/2007

WASTEWATER TREATMENT OPERATIONS (AS)

Program of Study Code: 002060

Term Effective: Fall 2019

25.00 Units

(707) 527-4603

cmurray@santarosa.edu (mailto:cmurray@santarosa.edu)

PROGRAM REQUIREMENTS:

The Wastewater Treatment Operations Program provides instructional training necessary for entry level positions in the operation of wastewater treatment facilities and wastewater collection systems as well as assistance in developing the knowledge to pass the required examinations administered by the California Department of Health Services. The certificate program requires a total of 21 units consisting of 18 units of core requirements plus 3 units of elective courses. Students may continue on to major in this area by completing additional course work and meeting other college requirements to earn an Associates' degree.

PROGRAM STUDENT LEARNING OUTCOMES

1. Read and interpret meters and gauges that monitor the purification process and operation;
2. apply data to formulas that determine treatment requirements, flow levels, and concentration levels;
3. collect water samples, operate chemical-feeding devices, and perform laboratory tests;
4. use information to control pumps, valves, and generators that move wastewater through treatment processes and dispose of the waste materials;
5. use computers to monitor and regulate processes and equipment and to generate reports; and
6. apply to take the Wastewater Treatment Plant Operator Examination, Grade II.

WASTEWATER TREATMENT OPERATIONS - COMPLETE 18.0 UNITS

WWTR 112	Math for Water and Wastewater Technology	3.0
WWTR 120	Wastewater Treatment 1	3.0
WWTR 121	Wastewater Treatment 2	3.0
WWTR 122	Chemistry for Water and Wastewater Technology	3.0
WWTR 123	Instrumentation and Controls	3.0
WWTR 124	Pumps and Motors	3.0

WASTEWATER TREATMENT OPERATIONS ELECTIVES - COMPLETE 6.0 UNITS

Complete any combination totaling at least 6.0 units from the following:

BGN 71	Business English Grammar	3.0
CHEM 42	Introductory General Chemistry	4.0
CHEM 60	General, Organic and Biological Chemistry	5.0
CS 65.11	Microsoft Office	3.0
ENGL 1A	College Composition	4.0
ENVS 12	Introduction to Environmental Science	3.0
MATH 101	Mathematics for the Associate Degree	3.0
MATH 155	Intermediate Algebra	4.0
WTR 110	Water Treatment Plant Operator	3.0
WTR 111	Water Distribution System Operator	3.0
WWTR 125	Industrial Waste Pretreatment Facility Inspection	3.0

INFORMATION LEARNING RESOURCES REQUIREMENT - COMPLETE 1.0 UNIT

LIR 10	Introduction to Information Literacy	1.0

WINE STUDIES: ENOLOGY (AS)

Program of Study Code: 002037

Term Effective: Fall 2019

29.00 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Wine Studies major, with three areas of emphasis (Wine Hospitality and Direct Marketing, Wine Marketing, and Enology) is designed to prepare students for a variety of positions in the wine industry.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate knowledge of the fundamentals of winemaking and wine cellar practices including product evaluation; and
2. Demonstrate knowledge of general chemistry principles, wine microbiology fundamentals, and wine laboratory techniques; and
3. Demonstrate practices of wine analysis methods during cellaring operations.

WINE STUDIES CORE REQUIREMENTS - COMPLETE 17.0 UNITS

AGBUS 2	Agricultural Computer Applications	3.0
WINE 1	Introduction to Viticulture, Winemaking, Wines of the World	3.0
WINE 3	Introduction to Enology	4.0
WINE 42.2	Spring Winery Operations	2.0
WINE 70	Beginning Wine Sensory Analysis	1.5
WINE 110	Advanced Wine Sensory Analysis	1.5

Complete any combination totaling at least 2.0 units from the following:

AGRI 99	Agriculture Occupational Work Experience	8.0
WINE 42.1	Fall Winery Operations	2.0

WINE STUDIES: ENOLOGY EMPHASIS REQUIREMENTS - COMPLETE 12.0 UNITS

Complete any combination totaling at least 12.0 units from the following:

CHEM 1A	General Chemistry	5.0
CHEM 8	Introductory Organic Chemistry	5.0
CHEM 42	Introductory General Chemistry	4.0
WINE 55	Lab Analysis of Wines	3.0

WINE STUDIES: WINE HOSPITALITY AND DIRECT MARKETING (AS)

Program of Study Code: 002035

Term Effective: Fall 2019

22.00 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Wine Studies: Wine Hospitality and Direct Marketing major prepares students with skills such as serving wine according to professional standards, planning and effectively publicizing wine industry events, selling wine direct to consumers, and effectively using social media. In addition, the wine core classes give students a thorough understanding of winemaking procedures, principles of wine tasting and analysis, computer programs used in wineries, and knowledge of wines produced locally, regionally, and internationally.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate knowledge of skills such as serving wine according to professional standards including an understanding of wine evaluation; and
2. Demonstrate the skills required for planning an effective publicity program for a wine industry event; and
3. Discuss wine regions and characteristics of grape varieties suited to specific regions; and
4. Demonstrate knowledge of the fundamentals of the wine industry including basic enology and business concepts.

WINE STUDIES: WINE HOSPITALITY AND DIRECT MARKETING - COMPLETE 22.0 UNITS

AGBUS 2	Agricultural Computer Applications	3.0
WINE 1	Introduction to Viticulture, Winemaking, Wines of the World	3.0
WINE 70	Beginning Wine Sensory Analysis	1.5
WINE 103	Wine Direct to Consumer Sales	1.5
WINE 110	Advanced Wine Sensory Analysis	1.5
WINE 128	Developing and Maintaining Wine Social Media Campaigns	1.5
WINE 130	Wine Service and Hospitality	1.5
WINE 131	Wine Industry Event Planning	1.5

Complete any combination totaling at least 4.0 units from the following:

WINE 42.1	Fall Winery Operations	2.0

And

WINE 42.2	Spring Winery Operations	2.0

or

WINE 3	Introduction to Enology	4.0

Complete any combination totaling at least 1.5 units from the following:

WINE 111.1	Sonoma American Viticulture Areas-North County	1.5
WINE 111.2	Sonoma American Viticulture Areas-South County	1.5

Complete any combination totaling at least 1.5 units from the following:

AGRI 56	Agricultural Enterprise Project	4.0
AGRI 98	Independent Study in Agriculture	3.0
AGRI 99	Agriculture Occupational Work Experience	8.0
AGRI 99I	Agriculture Occupational Work Experience Internship	8.0
CUL 256.5	Wine Appreciation	1.5
CUL 256.11	Wine and Food Pairing	1.5
WINE 101	Wine Sales	1.5
WINE 102	Wine Marketing	1.5
WINE 105	Wine Public Relations	1.5
WINE 109	Wine Club Creation, Maintenance and Promotion	1.5
WINE 112	Wine Regions of California	1.5
WINE 113	Winemakers of Sonoma County	1.5
WINE 114	Wines of California and Europe	1.5
WINE 116	Wines of Italy	1.5
WINE 117	Wines of France	1.5
WINE 118	Zinfandel-Grape to Glass	1.5
WINE 119	An Examination of Pinot Noir	1.5
WINE 121	Wines of Spain	1.5
WINE 123	Causation and Detection of Wine Faults	1.0
WINE 124	Cabernet Sauvignon Around the World	1.5
WINE 125	Napa Valley Appellations	1.5

WINE STUDIES: WINE MARKETING (AS)

Program of Study Code: 002036

Term Effective: Fall 2019

26.50 Units

(707) 527-4408

ingo-agnr@santarosa.edu (mailto:ingo-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Wine Studies: Wine Marketing major prepares students with skills such as basic knowledge of retail wine sales, construction a wine marketing plan, applying management and business and wine marketing, describing wine distribution methods and wine markets, and calculating pricing in markets.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate knowledge of skills such as constructing a wine marketing plan, applying management and business principles to wine marketing; and
2. describe wine distribution methods and wine markets, calculation of pricing in markets, and basic knowledge of global retail wine sales.
3. demonstrate knowledge of the fundamentals of the wine industry including product evaluation and basic enology concepts.

WINE BUSINESS AND MARKETING EMPHASIS REQUIREMENTS - COMPLETE 26.5 UNITS

AGBUS 2	Agricultural Computer Applications	3.0
BMK 50	Marketing	3.0
WINE 1	Introduction to Viticulture, Winemaking, Wines of the World	3.0
WINE 70	Beginning Wine Sensory Analysis	1.5
WINE 101	Wine Sales	1.5
WINE 102	Wine Marketing	1.5
WINE 103	Wine Direct to Consumer Sales	1.5
WINE 110	Advanced Wine Sensory Analysis	1.5

Complete any combination totaling at least 4.0 units from the following:

WINE 42.1	Fall Winery Operations	2.0
And		
WINE 42.2	Spring Winery Operations	2.0
or		
WINE 3	Introduction to Enology	4.0

Complete any combination totaling at least 1.5 units from the following:

WINE 111.1	Sonoma American Viticulture Areas-North County	1.5
WINE 111.2	Sonoma American Viticulture Areas-South County	1.5

Complete any combination totaling at least 4.5 units from the following:

AGRI 56	Agricultural Enterprise Project	4.0
AGRI 99	Agriculture Occupational Work Experience	8.0
AGRI 99I	Agriculture Occupational Work Experience Internship	8.0
CUL 256.5	Wine Appreciation	1.5

WINE 105	Wine Public Relations	1.5
WINE 109	Wine Club Creation, Maintenance and Promotion	1.5
WINE 112	Wine Regions of California	1.5
WINE 113	Winemakers of Sonoma County	1.5
WINE 114	Wines of California and Europe	1.5
WINE 116	Wines of Italy	1.5
WINE 117	Wines of France	1.5
WINE 118	Zinfandel-Grape to Glass	1.5
WINE 119	An Examination of Pinot Noir	1.5
WINE 121	Wines of Spain	1.5
WINE 123	Causation and Detection of Wine Faults	1.0
WINE 124	Cabernet Sauvignon Around the World	1.5
WINE 125	Napa Valley Appellations	1.5
WINE 127.1	Wine Compliance - Licensing	1.5
WINE 127.2	Winery Compliance - Required Recordkeeping and Reporting	1.5
WINE 128	Developing and Maintaining Wine Social Media Campaigns	1.5
WINE 130	Wine Service and Hospitality	1.5
WINE 131	Wine Industry Event Planning	1.5

CERTIFICATES IN THE CREDIT PROGRAM

Santa Rosa Junior College offers a broad array of Career Technical Education certificate programs that provide a course of study preparing students directly for employment or self-employment upon completion of the program. Most certificate programs are developed through the collaboration of SRJC faculty and industry leaders and employers who sit on advisory committees for the Career Technical Education disciplines.

There are two types of certificates acknowledged by the State (Title 5, 55070(a)(b)) and the College: those requiring approval by the Systems Office, California Community Colleges called Certificates of Achievement; and, those requiring only local Board approval. At Santa Rosa Junior College, the locally approved certificates are called Skills Certificates. Only Certificates of Achievement which have been approved by the System's Office will appear on a student transcript.

CERTIFICATE OF ACHIEVEMENT

Certificates of Achievement certify that students successfully completing all requirements are fully prepared to enter the careers designated on their certificates. These programs generally, but not always, require a year or more of study and eighteen or more units of coursework.

Certificates of Achievement must be approved by the Curriculum Committee and the Board of Trustees. They must also be endorsed by the Bay Area Community College Consortium (comprised of community college occupational administrators) and approved by the Systems Office. Certificates of Achievement are posted to the official transcript.

SKILLS CERTIFICATE

A Skills Certificate certifies that students successfully completing all requirements are prepared with a particular set of skills for an entry-level position in the field, to upgrade or advance in an existing career, or to pursue a full Certificate of Achievement. These programs usually provide career ladder instruction and are therefore of shorter duration and narrower in scope than Certificate of Achievement Programs.
Skills Certificates must be approved by the Curriculum Committee and the Board of Trustees
Santa Rosa Junior College is committed to maintaining the academic rigor and relevance of its occupational curriculum. Each Career Technical Education program has an employer advisory committee to provide Career Technical Education outlook information and give input to the curriculum, ensuring that students are learning the skills needed by industry. Whether the student is exploring career choices following high school, considering a major career move, or seeking new skills for advancement, a wide variety of training options are available through these various certificate programs. Skills certificates do not post to the official transcript.

FINANCIAL AID ELIGIBILITY

Not all SRJC certificate programs are eligible for purposes of federal financial aid payments. To be considered eligible, a program must be a minimum of 15 weeks and 16 units in length, must have secured Chancellor's Office approval prior to the term of aid being paid, and must be included on SRJC's Federal Aid Participation Agreement.

THE CERTIFICATE OF ACHIEVEMENT AND THE MAJOR (DEGREE PROGRAM)

Students in Career Technical Education programs are strongly encouraged to obtain an Associate's Degree. This can be done by selecting a major related to the certificate program, or by pursuing a more general major, such as Humanities, Natural Sciences, or Social and Behavioral Sciences. To be awarded an Associate's Degree, a student must complete at least 18 units of major requirements, as well as other degree requirements. (Please see the section, "Degree Requirements," in this Catalog.)
Degree programs are often available for many occupational fields that also have a Certificate of Achievement program. A student who has completed a certificate program may be awarded the Associate's Degree in a later semester providing all major and degree requirements are met.

THE CERTIFICATE OF ACHIEVEMENT AND SELECTION PROCESSES

Some programs—particularly in the Health Sciences or Public Safety fields—may have a selection process for entering students. Please contact the department or a counselor for information about the selection process for any such program.

CERTIFICATES IN THE NON-CREDIT PROGRAM

There are two types of non-credit certificates acknowledged by the State and the College. The first is called a Certificate of Completion and the second a Certificate of Competency. Title 5: 55151(b)(1)(2)

CERTIFICATE OF COMPLETION

This certificate confirms that a student has completed a program or sequence of non-credit courses that prepares him or her to progress in a career path or to undertake degree-applicable or non-degree applicable credit courses. This document certifies that the student has gained proficiency in basic educational skills, such as math, reading, listening, writing or English as a Second Language leading to improved employability or job opportunities at the entry level.

CERTIFICATE OF COMPETENCY

This certificate confirms that a student has enrolled in a program or sequence of non-credit courses and demonstrated competencies that prepares him or her to progress to a career path or to undertake credit courses to further pursue his or her career. This document certifies that the student has achieved a set of skills or competencies that can be applied in a recognized career field and articulated with degree-applicable coursework leading to a degree.
Approvals

Each certificate must be approved by the Curriculum Committee, Board of Trustees and the Systems Office.

CERTIFICATE REQUIREMENTS

All of the following requirements must be met in order for the certificate to be conferred:

- All coursework and related unit requirements
- A minimum number of units taken in residence
- A minimum standard of scholarship

Coursework and Related Unit Requirements

No course may be used more than once to fulfill a requirement in the certificate. Generally stated, a requirement within a certificate is:

A) A designated course (e.g., NRM 15);

B) A defined combination of courses (e.g., NRM 2.1 and NRM 2.2); or

C) A set number of units that can be fulfilled from a list of courses (e.g., "3 units in any combination from the following: NRM 1, 2, 3, 4, 10, 22, 56").

Residence Requirement

1. A student must complete at least six units or 20 percent of the total units (whichever is greater) of the certificate program at Santa Rosa Junior College. This means that, for certificates of one to six units, all coursework must be completed at SRJC.
2. A student must be enrolled at Santa Rosa Junior College during the semester in which the certificate is awarded.
3. A department may propose to exceed the minimum standards set herein. Such proposal would be reviewed by the Educational Planning & Coordinating Council (EPCC) and recommended to the Academic Senate for appropriate action.
4. Implementation of approved residency requirements will have an effective date based on the new catalog year, so that all students receive timely, clear, and consistent information about the requirement.

Scholarship Requirement

1. A student must have a minimum "C" grade (or equivalent) in all Santa Rosa Junior College and transferred coursework submitted toward the certificate.
2. A department may propose to exceed the minimum standards set herein. Such proposal would be reviewed by the Educational Planning & Coordinating Council (EPCC) and recommended to the Academic Senate for appropriate action.
3. Implementation of approved scholarship requirements will have an effective date based on the new catalog year, so that all students receive timely, clear, and consistent information about the requirement.

Policy 3.2,Revised December 2012

TERM EFFECTIVE AND THE CERTIFICATE

The requirements for a certificate are effective beginning the semester shown for each certificate. Students who began working on the approved certificate before the effective semester may not be affected by the changes because they have catalog rights. Please Note: Catalog Rights are not applicable for degree and certificate programs with a separate selection process (i.e., Nursing, Radiologic Technology, Dental Hygiene). Students will be held to the requirements listed in the major for the year in which they actually enter the program. Students should consult with the program contact person, department chair, or a counselor to determine their eligibility to complete the major under previous requirements.

CATALOG RIGHTS FOR CERTIFICATES

CERTIFICATES IN THE CREDIT PROGRAM

Award requirements for a certificate in the credit program are determined according to the catalog in effect at the time of initial enrollment. In order to maintain catalog rights, a student must be in continuous enrollment; that is, enrollment in at least one credit course during each successive academic year. For the purpose of catalog rights, the academic year begins each fall and ends with the subsequent summer session. When a break in enrollment occurs, certificate requirements are determined according to the catalog in effect when enrollment is resumed. Students may choose to receive a certificate award under the catalog requirements in effect at the time of their petition to receive the certificate.

CERTIFICATES IN THE NON-CREDIT PROGRAM

Award requirements for a certificate in the non-credit program are determined according to the catalog requirements in effect at the time of their petition to receive the certificate.

Policy 3.2, Revised December 2012

2019-2020 LIST OF CERTIFICATES

ADMINISTRATIVE ASSISTANT

Program of Study Code: 003053

Term Effective: Fall 2018

28.50 Units

(707) 527-4458

kseder@santarosa.edu (mailto:kseder@santarosa.edu)

PROGRAM REQUIREMENTS:

This Program is a Certificate of Achievement. Because the administrative field continues to rank among the largest occupations in the U.S. economy, job opportunities for skilled Administrative Assistants are available locally and nationally. According to the U.S. Department of Labor, approximately nine out of ten Administrative Assistants are employed in service-providing industries that range from education, health care, and social services to government

and retail trade. Depending on experience, skills, and level of responsibility, salaries vary broadly. However, job applicants with extensive technology knowledge and workforce skills such as communication, teamwork, project management, problem-solving, and systems develop are in high demand. Individuals who have earned certification typically earn higher salaries and are in high demand for employment. The traditional role of office professionals continues to dramatically change due to corporate downsizing, the elimination of middle managers, and the increased dependency on technology. As a result, the importance and value of the administrative professionals have dramatically increased, and the demand for well-trained, well-rounded administrative staff has never been greater. Most businesses regard administrative workers as the operation's point people and rely on their skilled expertise and operational coordination to accomplish multiple administrative and clerical duties that are essential to efficiently running an organization. Some of the key responsibilities expected of Administrative Assistants are planning and scheduling meetings, troubleshooting office equipment and programs, conducting project and database management, disseminating information, pursuing Internet research, composing correspondence, and answering phones, emails and other communication. The Administrative Assistant Program includes an internship, which provides the student an opportunity to use their acquired skills in an office environment and gain experience in their profession before completing the program. This certificate is the advanced level of the Administrative Assistant program. Students completing the Office Assistant Completion Certificate will have fulfilled a portion of the Administrative Assistant Certificate of Achievement. More information about the programs can be found at the Business Admimistration Department website.

PROGRAM STUDENT LEARNING OUTCOMES

1. Compose and prepare business documents and correspondence demonstrating appropriate communication techniques and integration of appropriate software and other technology tools;
2. apply time management, project management, records management, and organizational skills to complete office tasks, projects, and operations;
3. use critical thinking, problem solving, interpersonal, and collaborative skills to complete work independently or in a team in an ethical and professional manner;
4. evaluate, analyze, and use appropriate technology to complete tasks and documents productively and efficiently; and
5. use integrated math computational skills to solve a variety of business applications such as inventory, payroll, calculating interest, and budget monitoring.

ADMINISTRATIVE ASSISTANT REQUIREMENTS - COMPLETE 28.5 UNITS

BBK 50	Computerized Bookkeeping and Accounting I	3.0
BGN 71	Business English Grammar	3.0
BGN 81	Practical Business Math Skills	3.0
BGN 100	Professional Business Writing	1.5
BGN 102	Typing-Skill Building	1.5
BGN 110	Exploring Business Careers	1.0
BGN 111	Soft Skills for Business	3.0
BGN 112	Marketing Your Skills	3.0
BGN 205	Basic Filing	0.5
BOT 99.1I	Business Office Tech Occupational Work Experience Internship	8.0
BOT 154	Office Procedures	3.0

CS 60.11A	Microsoft Word, Part 1	1.5
CS 61.11A	Microsoft Excel, Part 1	1.5

Complete any combination totaling at least 1.0 unit from the following:

BGN 203	10-Key Skills	0.5
BGN 204	Electronic Calculator	0.5
BMG 52	Business Communication	3.0
BOT 85.1	Legal Professions	1.0
BOT 85.4	Civil Litigation Practices and Procedures	1.5
BOT 85.5	Discovery Practices and Procedures	1.5
CS 57.11	Introduction to Social Media	3.0
CS 61.11B	Microsoft Excel, Part 2	1.5
CS 165.31	Microsoft Office Integration	0.5

NOTES:

BOT 99I should be taken in the final semester of the program for a minimum of 2 units.

ADULT ED: BASIC COMPUTER OPERATIONS

Program of Study Code: 005098

Term Effective: Fall 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Basic Computer Operations Certificate of Completion provides a sequence of courses that assist students with little or no experience with computers to practice using common hardware and software including keyboarding, printing, email management, calendar management, and basic word-processing.

PROGRAM STUDENT LEARNING OUTCOMES

1. Practice using common hardware and software to email, calendar, word-process documents, and become familiar with Excel;
2. Show increased confidence in using a computer

ADULT ED: BASIC COMPUTER OPERATIONS - COMPLETE 0.0 UNITS

Complete 3 courses from below

ADLTED 761.1	Basic Computer Operations 1: Computer Operations	0.0

ADLTED 761.2	Basic Computer Operations 2: Beginning MS Word Processing	0.0
ADLTED 761.3	Basic Computer Operations 3: Format MS Word & Email Groups	0.0

ADULT ED: BASIC COMPUTER OPERATIONS FOR THE WORKPLACE

Program of Study Code: 005114

Term Effective: Fall 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Basic Computer Operations for the Workplace Certificate of Completion provides a sequence of courses that assist students with little or no experience with computers to practice using a variety of programs to printing, manage email, calendars, and create Work and Excel documents.

PROGRAM STUDENT LEARNING OUTCOMES

1. Practice using common hardware and software to email, calendar, process Word and Google documents, and become familiar with Excel and Google Sheets;
2. Show increased confidence in using a computer.

ADULT ED: BASIC COMPUTER OPERATIONS FOR THE WORKPLACE - COMPLETE 0.0 UNITS

ADLTED 761.4	Basic Computer Operations 4: Google Calendar and MS Word	0.0
ADLTED 761.5	Basic Computer Operations 5: MS Word, Google Docs, Excel	0.0
ADLTED 761.6	Basic Computer Operations 6: Basic Excel and Google Sheets	0.0

Complete 1 course from below:

ADLTED 764	Introduction to Student Information Systems	0.0
ADLTED 765.1	Basic Keyboarding, Part 1	0.0
ADLTED 765.2	Basic Keyboarding, Part 2	0.0

ADULT ED: FAMILY CHILD CARE PROVIDER

Program of Study Code: 005102

Term Effective: Summer 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Family Child Care Provider Certificate of Completion provides a sequence of courses that prepares students to become licensed family childcare providers.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate understanding of theories of child development, curriculum and program design, and operations and licensure requirements;
2. Prepare to apply to be a licensed provider.

ADULT ED: FAMILY CHILD CARE PROVIDER - COMPLETE 0.0 UNITS

ADLTED 731.1	Child Care Provider 1: Professional Operations and Licensing	0.0
ADLTED 731.2	Child Care Provider 2: Curriculum and Program Development	0.0
ADLTED 731.3	Child Care Provider 3: Child Development	0.0
ADLTED 730	First Aid, CPR, AED and Bloodborne Pathogens	0.0

NOTES:

Complete all three courses listed above.

ADULT ED: FINANCIAL LITERACY

Program of Study Code: 005085

Term Effective: Fall 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Financial Literacy Certificate of Completion provides a sequence of four courses that will introduce students to the principles of finance with an emphasis on personal finance. After taking this sequence students will be prepared to move to a focus on business finance.

PROGRAM STUDENT LEARNING OUTCOMES

1. Create a personal budget of income and expenses;
2. Explain how credit works and how to use credit responsibly;
3. Describe available banking and loan services.

ADULT ED: FINANCIAL LITERACY - COMPLETE 0.0 UNITS

ADLTED 723	Financial Mathematics	0.0
ADLTED 791	Personal Finance	0.0
ADLTED 792	Planning for the Financial Future	0.0
ADLTED 761.5	Basic Computer Operations 5: MS Word, Google Docs, Excel	0.0
ADLTED 761.6	Basic Computer Operations 6: Basic Excel and Google Sheets	0.0

NOTES:

Complete all four courses listed above

ADULT ED: GED/HSE MATH

Program of Study Code: 005108

Term Effective: Fall 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: GED/HSE: Math Certificate of Competency provides a sequence of courses that prepares students to take the GED or High School Equivalency Exam. Following initial assessment, students will study those areas where they need particular assistance in Math, Reading, Writing, Science, and Social Science.

PROGRAM STUDENT LEARNING OUTCOMES

1. Solve multi-step computational and word problems involving beginning algebra and geometry.
2. Prepare to take the GED or High School Equivalency Exam.

ADULT ED: GED/HSE MATH - COMPLETE 0.0 UNITS

ADLTED 521	Basic Academic Skills and GED Preparation - Math 1	0.0

ADLTED 522	Basic Academic Skills and GED Preparation - Math 2	0.0
ADLTED 523	Basic Academic Skills and GED Preparation - Math 3	0.0

ADULT ED: GED/HSE READING

Program of Study Code: 005106

Term Effective: Fall 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: GED/HSE: Reading Certificate of Competency provides a sequence of courses that prepares students to take the General Educational Diploma or High School Equivalency Exam. Following initial assessment, students will study those areas where they need particular assistance in Math, Reading, Writing, Science, and Social Science.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate comprehension of high school level academic, workplace, and recreational reading through discussion and/or longer written responses and essays.
2. Prepare to take the GED or High School Equivalency Exam.

ADULT ED: GED/HSE: READING - COMPLETE 0.0 UNITS

ADLTED 501	Basic Academic Skills and GED Preparation - Reading 1	0.0
ADLTED 502	Basic Academic Skills and GED Preparation - Reading 2	0.0
ADLTED 503	Basic Academic Skills and GED Preparation - Reading 3	0.0

Complete 1 course from below

ADLTED 570.1	Writing and Reading Improvement for Test Preparation	0.0
ADLTED 570.2	Grammar Improvement for Test Preparation	0.0

ADULT ED: GED/HSE SCIENCE

Program of Study Code: 005107

Term Effective: Fall 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: GED/HSE: Science Certificate of Competency provides a sequence of courses that prepares students to take the GED or High School Equivalency Exam. Following initial assessment, students will study those areas where they need particular assistance in Math, Reading, Writing, Science, and Social Science.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate comprehension of high school level reading in the Sciences through discussion and longer written responses and essays.
2. Prepare to take the GED or High School Equivalency Exam.

ADULT ED: GED/HSE: SCIENCE - COMPLETE 0.0 UNITS

ADLTED 531	Basic Academic Skills and GED Preparation--Science 1	0.0
ADLTED 532	Basic Academic Skills and GED Preparation--Science 2	0.0
ADLTED 533	Basic Academic Skills and GED Preparation--Science 3	0.0

ADULT ED: GED/HSE SOCIAL SCIENCE

Program of Study Code: 005110

Term Effective: Fall 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: GED/HSE: Social Science Certificate of Competency provides a sequence of courses that prepares students to take the GED or High School Equivalency Exam. Following initial assessment, students will study those areas where they need particular assistance in Math, Reading, Writing, Science, and Social Science.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate comprehension of academic, workplace, and recreational reading of Social Science materials through discussion and longer written responses or essays.
2. Prepare to take the GED or High School Equivalency Exam.

ADULT ED: GED/HSE: SOCIAL SCIENCE - COMPLETE 0.0 UNITS

ADLTED 541	Basic Academic Skills and GED Preparation--Social Science 1	0.0
ADLTED 542	Basic Academic Skills and GED Preparation--Social Science 2	0.0

ADULT ED: GED/HSE WRITING

Program of Study Code: 005109

Term Effective: Fall 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: GED/HSE: Writing Certificate of Competency provides a sequence of courses that prepares students to take the GED or High School Equivalency Exam. Following initial assessment, students will study those areas where they need particular assistance in Math, Reading, Writing, Science, and Social Science.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate comprehension of high school level academic, workplace, and recreational reading through discussion and/or longer written responses and essays.
2. Prepare to take the GED or High School Equivalency Exam.

ADULT ED: GED/HSE: WRITING - COMPLETE 0.0 UNITS

ADLTED 511	Basic Academic Skills and GED Preparation - Writing 1	0.0
ADLTED 512	Basic Academic Skills and GED Preparation - Writing 2	0.0
ADLTED 513	Basic Academic Skills and GED Preparation - Writing 3	0.0

ADULT ED: GREEN HOTEL SERVICE WORKER

Program of Study Code: 005112

Term Effective: Spring 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Green Hotel Service Worker Certificate of Completion is designed to prepare students to work in hotels, motels, inns, and Bed and Breakfasts cleaning, sanitizing, arranging rooms, hallways, and other hotel areas. After completing the certificates, students are ready to apply for positions in the hospitality sector as a service worker.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate industry-recommended practices of safety in the use of tools, equipment, chemicals, materials, and supplies.
2. Prepare a resume and complete and application for a position as a hotel service workers.

ADULT ED: GREEN HOTEL SERVICE WORKER - COMPLETE 0.0 UNITS

ADLTED 774	Green Hotel Service Work	0.0
ADLTED 740	OSHA 10 Certification Preparation	0.0
ADLTED 749.2	OSHA 30--General Industry Procedures	0.0

ADULT ED: INTRODUCTION TO BUILDING AND CONSTRUCTION TRADES

Program of Study Code: 005097

Term Effective: Fall 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Introduction to Building and Construction Trades Certificate of Completion provides a sequence of courses that assist students in learning about variety of jobs in the field, the communications skills necessary for success, and workforce preparation.

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe a variety of jobs in the building and construction trades.
2. Demonstrate an understanding of the safety in the workplace.

3. Effectively use correct terminology to explain tasks, materials, and standards in the industry.
4. Read and interpret building plans.

ADULT ED: INTRODUCTION TO BUILDING AND CONSTRUCTION TRADES - COMPLETE 0.0 UNITS

ADLTED 721	Workplace Arithmetic--Part 1	0.0
ADLTED 744	Survey of the Building Trades and Construction Industry	0.0
ADLTED 746	Introduction to Plan Reading for Building Trades	0.0

Complete 1 course from below

ADLTED 722	Workplace Arithmetic--Part 2	0.0
ADLTED 741	Forklift Operation--Sitting and Standing	0.0
ADLTED 742.1	Hardscaping 1: Irrigation and Non-plant Features	0.0

Complete 1 course from below

ADLTED 740	OSHA 10 Certification Preparation	0.0
ADLTED 749.1	OSHA 30--Construction Industry Procedures	0.0
ADLTED 749.2	OSHA 30--General Industry Procedures	0.0

ADULT ED: INTRODUCTION TO HOSPITALITY INDUSTRY

Program of Study Code: 005103

Term Effective: Fall 2018

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

ADULT ED: INTRODUCTION TO HOSPITALITY INDUSTRY - COMPLETE 0.0 UNITS

ADLTED 771	Customer Service	0.0
ADLTED 772	Introduction to Tourism and Hospitality	0.0
ADLTED 773	Sonoma County Tourism Ambassador Certification	0.0

ADULT ED: INTRODUCTION TO LANDSCAPE MAINTENANCE

Program of Study Code: 005115

Term Effective: Fall 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Introduction to Landscape Maintenance Certificate of Completion provides courses that prepare and train students to work in commercial landscaping businesses and municipal settings. Students will learn and practice the basics of using a variety of landscaping tools and equipment common to landscape maintenance.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate a basic knowledge of key aspects of landscape maintenance including lawn care, pruning and maintaining trees and shrubs, safely using and maintaining landscaping tools and equipment, and basic sprinkler repair.
2. Prepare for a position in the landscaping industry.

ADULT ED: INTRODUCTION TO LANDSCAPE MAINTENANCE - COMPLETE 0.0 UNITS

ADLTED 748.3	Introduction to Vegetation Management for Fire Prevention	0.0
ADLTED 748.4	Introduction to Tree Maintenance and Pruning	0.0
ADLTED 748.5	Introduction to Sprinkler Repair and Maintenance	0.0
ADLTED 740	OSHA 10 Certification Preparation	0.0
ADLTED 749.1	OSHA 30--Construction Industry Procedures	0.0
ADLTED 749.2	OSHA 30--General Industry Procedures	0.0
ADLTED 730	First Aid, CPR, AED and Bloodborne Pathogens	0.0
ADLTED 741	Forklift Operation--Sitting and Standing	0.0

ADULT ED: INTRODUCTION TO LANDSCAPING

Program of Study Code: 005088

Term Effective: Spring 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Introduction to Landscaping Certificate of Completion provides a sequence of courses that assist students in learning about variety of jobs in the field, the communications skills necessary for success, and workforce preparation.

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe a variety of jobs in the landscaping industry.
2. Demonstrate an understanding of the safety in the workplace.
3. Effectively use correct terminology to explain tasks, materials, and standards in the industry.
4. Use proper measurement per landscaping plans.

ADULT ED: INTRODUCTION TO LANDSCAPING - COMPLETE 0.0 UNITS

ADLTED 742.1	Hardscaping 1: Irrigation and Non-plant Features	0.0
ADLTED 742.2	Hardscaping 2: Non-Plant Features	0.0
ADLTED 743	Softscape: Plants and Environmental Conditions	0.0

Complete 1 course from below

ADLTED 740	OSHA 10 Certification Preparation	0.0
ADLTED 749.1	OSHA 30--Construction Industry Procedures	0.0
ADLTED 749.2	OSHA 30--General Industry Procedures	0.0

Complete 1 course from below

ADLTED 721	Workplace Arithmetic--Part 1	0.0
ADLTED 722	Workplace Arithmetic--Part 2	0.0

Complete 1 course from below

ADLTED 748.1	Edible Landscaping	0.0
ADLTED 748.2	Introduction to Nursery Operations	0.0
ADLTED 748.3	Introduction to Vegetation Management for Fire Prevention	0.0

ADULT ED: INTRODUCTION TO MEDICALLY FRAGILE INFANT CARE

Program of Study Code: 005105

Term Effective: Fall 2018

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Introduction to Medically Fragile Infant Care Certificate of Completion provides a sequence of courses that prepare and train students to work with infants in out-of-home care and other institutional settings.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate knowledge of all aspects of caring for a medically fragile infant.

ADULT ED: INTRODUCTION TO MEDICALLY FRAGILE INFANT CARE - COMPLETE 0.0 UNITS

ADLTED 736A	Medically Fragile Infants--Part 1	0.0
ADLTED 736B	Medically Fragile Infants--Part 2 Practicum	0.0

Complete 1 course

ADLTED 730	First Aid, CPR, AED and Bloodborne Pathogens	0.0
ADLTED 734A	Youth in Out-of-Home Care 1	0.0

ADULT ED: INTRODUCTION TO RESTAURANT SERVICES

Program of Study Code: 005089

Term Effective: Fall 2018

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Introduction to Restaurant Services Certificate of Completion provides a sequence of courses designed to give students an overview of the food industry with both a practical and historical understanding of employment in the industry. After taking this sequence students will be prepared to apply for entry-level jobs in restaurant and institutional food service settings.

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe a variety of jobs in the food preparation and service industry.
2. Demonstrate an understanding of the proper ways to clean and sanitize any and all parts of the food service area.
3. Explain customer service standards and their importance in the food service industry.

ADULT ED: INTRODUCTION TO RESTAURANT SERVICES - COMPLETE 0.0 UNITS

ADLTED 771	Customer Service	0.0
ADLTED 780	Introduction to Restaurant Services	0.0
ADLTED 781	Introduction to Culinary Math Part 1	0.0
ADLTED 783	Workforce Preparation--Food Sanitation & Safety	0.0
ADLTED 782	Introduction to Culinary Math Part 2	0.0
ADLTED 784	Commercial Food Preparation and Service	0.0

ADULT ED: KEYBOARDING

Program of Study Code: 005080

Term Effective: Spring 2018

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Keyboarding Certificate of Completion provides a sequence of two courses that will help potential employees to practice keyboarding skills including: introduction and reinforcement of touch typing skills, spacing rules, document formatting, basic grammar, proofreading and editing.

PROGRAM STUDENT LEARNING OUTCOMES

1. Practice using the keyboard to 25 gross words a minute;
2. Increase keyboard speed to 45 gross words a minute;

ADULT ED: KEYBOARDING - COMPLETE 0.0 UNITS

ADLTED 765.1	Basic Keyboarding, Part I	0.0
ADLTED 765.2	Basic Keyboarding, Part II	0.0

ADULT ED: PERSONAL CARE ATTENDANT

Program of Study Code: 005113

Term Effective: Fall 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Personal Care Attendant Certificate of Completion provides a sequence of courses that prepare and train students to work as personal care attendants in homes and other institutional settings. This three-course sequence covers basic care, dementia and end of life care, and a practicum working with professionals who provide various kinds of care.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate a knowledge of all aspects of basic care, dementia, end of life care, and an understanding of the kinds of position within the field;
2. Prepare to apply for a position as a personal care attendant.

ADULT ED: PERSONAL CARE ATTENDANT - COMPLETE 0.0 UNITS

ADLTED 737.1	Personal Care Attendant 1: Basic Care	0.0
ADLTED 737.2	Personal Care Attendant 2: Dementia and End of Life Care	0.0
ADLTED 737.3	Personal Care Attendant 3: Practicum	0.0
ADLTED 730	First Aid, CPR, AED and Bloodborne Pathogens	0.0

ADULT ED: SMALL BUSINESS MANAGEMENT

Program of Study Code: 005086

Term Effective: Spring 2018

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Small Business Management Certificate of Completion provides a sequence of courses that will help a small business-owner to achieve greater success and profitability by introducing key elements of supervisory management, customer service, marketing, and updating or modifying an existing business plan.

PROGRAM STUDENT LEARNING OUTCOMES

1. Explain and demonstrate basic principles of business management;
2. Modify an existing business plan.

ADULT ED: SMALL BUSINESS MANAGEMENT - COMPLETE 0.0 UNITS

ADLTED 753	Marketing for a Small Business	0.0
ADLTED 756	Managing a Small Business	0.0
ADLTED 771	Customer Service	0.0

ADULT ED: STARTING A SMALL BUSINESS

Program of Study Code: 005084

Term Effective: Fall 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Starting a Small Business Certificate of Completion provides a sequence of courses that lead to the creation of a complete business plan including researching and planning, small business finance, marketing, and writing and presenting the business plan.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate and explain the importance of a complete and well-researched business plan;
2. Create an effective business plan.

ADULT ED: STARTING A SMALL BUSINESS - COMPLETE 0.0 UNITS

Complete 3 courses from below

ADLTED 751	How to Start A Small Business	0.0
ADLTED 752	Small Business Financing	0.0
ADLTED 753	Marketing for a Small Business	0.0

Complete 1 course from below

ADLTED 724	Business Mathematics Using Excel	0.0
ADLTED 761.1	Basic Computer Operations 1: Computer Operations	0.0
ADLTED 761.2	Basic Computer Operations 2: Beginning MS Word Processing	0.0
ADLTED 761.3	Basic Computer Operations 3: Format MS Word & Email Groups	0.0
ADLTED 761.4	Basic Computer Operations 4: Google Calendar and MS Word	0.0
ADLTED 761.5	Basic Computer Operations 5: MS Word, Google Docs, Excel	0.0
ADLTED 761.6	Basic Computer Operations 6: Basic Excel and Google Sheets	0.0

ADULT ED: STUDENT SUCCESS WORKER

Program of Study Code: 005116

Term Effective: Spring 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Student Success Worker Certificate of Completion provides a sequence of four courses that will introduce students to the principles of working with students, parents, and caregivers to support students in reaching their educational goals. After taking this sequence students will be prepared to apply for positions in schools, after-school, and other programs where literacy is a component of student success.

PROGRAM STUDENT LEARNING OUTCOMES

1. Effectively use a computer and keyboard to type, print, access, and create email.
2. Explain how family and general literacy contributes to student success.
3. Explore job opportunities where literacy is a component of student literacy and success.

ADULT ED: STUDENT SUCCESS WORKER - COMPLETE 0.0 UNITS

ADLTED 761.1	Basic Computer Operations 1: Computer Operations	0.0
ADLTED 764	Introduction to Student Information Systems	0.0
ADLTED 793	Student Support Worker 1: Introduction to Student Success	0.0
ADLTED 794	Student Support Worker 2	0.0

Complete 1 course from below:

ADLTED 761.2	Basic Computer Operations 2: Beginning MS Word Processing	0.0
ADLTED 761.3	Basic Computer Operations 3: Format MS Word & Email Groups	0.0

ADULT ED: TEACHING AND LEARNING

Program of Study Code: 005104

Term Effective: Fall 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Teaching and Learning Certificate of Completion provides a sequence of courses that train and support teachers of adult students particularly in a community setting.

PROGRAM STUDENT LEARNING OUTCOMES

1. Explain and describe how to engage an adult learner in a higher education setting;
2. Create an effective syllabus and course calendar of assignments;
3. Design assignments that meet course objectives, assess competence, and create an enjoyable and supportive learning environment for students.

ADULT ED: TEACHING AND LEARNING - COMPLETE 0.0 UNITS

ADLTED 601	Understanding the Adult Learner: Teach/Learn Modalities	0.0
ADLTED 602	Creating Course Management Documents	0.0
ADLTED 603	Lesson Planning: Time Management and Transitions	0.0
ADLTED 604	Designing Assignments to Meet Learning Objectives	0.0
ADLTED 605	Assessment Techniques	0.0

Complete 2 courses from below

ADLTED 606	Scaffolding for Low Literacy Learners	0.0
ADLTED 607	Technology in the Adult Education Classroom	0.0
ADLTED 608	Classroom Management Techniques	0.0

ADLTED 609	Teaching to College and Career Readiness	0.0
ADLTED 610	Career Education Teaching Strategies	0.0
ADLTED 611	Team Teaching Practices	0.0
ADLTED 613	Strategies for Teaching Students with Disabilities	0.0

ADULT ED: TRAUMA-INFORMED RELATIONSHIPS

Program of Study Code: 005100

Term Effective: Summer 2018

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Trauma-Informed Relationships Certificate of Completion provides a sequence of courses that prepare and train students to work with youth in out-of home care and other institutional settings. This three-course sequence covers tools for early start developmental screening, and trauma-informed relationships.

PROGRAM STUDENT LEARNING OUTCOMES

Demonstrate knowledge of the effects of trauma on youth in out-of-home care and other institutional settings.

ADULT ED: TRAUMA-INFORMED RELATIONSHIPS - COMPLETE 0.0 UNITS

Complete 3 courses from below

ADLTED 735.1	Early Start Developmental Screening Tools	0.0
ADLTED 735.2	Trauma Informed Relationships--Part 1	0.0
ADLTED 735.3	Trauma Informed Relationships--Part 2	0.0

Complete 1 course from below

ADLTED 730	First Aid, CPR, AED and Bloodborne Pathogens	0.0
ADLTED 734A	Youth in Out-of-Home Care 1	0.0
ADLTED 734B	Youth in Out-of-Home Care 2	0.0

ADULT ED: WORKFORCE PREPARATION

Program of Study Code: 005111

Term Effective: Spring 2019

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Workforce Preparation Certificate of Completion provides a sequence of courses that prepare and train students to work in a wide variety of workplace and industrial environments.

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe and explain the importance of soft skills in a variety of workplaces;
2. Prepare to apply for a position in private or public employment.

ADULT ED: WORKFORCE PREPARATION - COMPLETE 0.0 UNITS

ADLTED 766.1	Workforce Preparation I: Soft Skills in the Workplace	0.0
ADLTED 766.2	Workforce Preparation II: Lifelong Learning/Professionalism	0.0
ADLTED 766.3	Workforce Preparation III: Communication, Customer Service	0.0

Complete 1 course from below

ADLTED 766.4	Workforce Preparation 4: College Transitions to Careers	0.0
ADLTED 766.5	Workforce Preparation 5: Transition To Careers	0.0

Complete 1 course from below

ADLTED 766.6	Workforce Preparation 6: Introduction to Workplace English	0.0
ADLTED 766.7	Workforce Preparation 7: Introduction to Workplace Writing	0.0
ADLTED 721	Workplace Arithmetic--Part 1	0.0
ADLTED 722	Workplace Arithmetic--Part 2	0.0

ADULT ED: YOUTH IN OUT-OF-HOME CARE

Program of Study Code: 005099

Term Effective: Fall 2018

0.00 Units

(707) 527-4720

nmiller@santarosa.edu (mailto:nmiller@santarosa.edu)

PROGRAM REQUIREMENTS:

The Adult Ed: Youth in Out-of-Home Care Certificate of Completion provides a sequence of courses that prepare students to become foster parents in Sonoma County. Courses cover: strategies for helping foster children and youth to adapt to the new home environment; planning for placement; legal issues surrounding foster care.

PROGRAM STUDENT LEARNING OUTCOMES

1. Explain the difficulties in adjustment for children in foster care using knowledge of appropriate and inappropriate behaviors within the stages of development.
2. Employ skills to assist foster children in their relationships with their birth families.
3. Identify and apply current laws and practices.

ADULT ED: FOSTER PARENT PREPARATION - COMPLETE 0.0 UNITS

ADLTED 730	First Aid, CPR, AED and Bloodborne Pathogens	0.0
ADLTED 734A	Youth in Out-of-Home Care 1	0.0
ADLTED 734B	Youth in Out-of-Home Care 2	0.0

Complete 2 courses from below

ADLTED 735.1	Early Start Developmental Screening Tools	0.0
ADLTED 735.2	Trauma Informed Relationships--Part 1	0.0
ADLTED 735.3	Trauma Informed Relationships--Part 2	0.0
ADLTED 736A	Medically Fragile Infants--Part 1	0.0
ADLTED 736B	Medically Fragile Infants--Part 2 Practicum	0.0

NOTES:

Complete all three courses listed above.

ADVANCED CARDIAC LIFE SUPPORT

Program of Study Code: 005022

Term Effective: Fall 1981

0.50 Units

(707) 836-2912

achapman@santarosa.edu (mailto:achapman@santarosa.edu)

PROGRAM REQUIREMENTS:

The program is a Skills Certificate.

PROGRAM STUDENT LEARNING OUTCOMES

1. Interpret current cardiology science and practice as it relates to advanced cardiac life support (ACLS) in pre-hospital and hospital environment; and
2. demonstrate knowledge and skills required for certification by American Heart Association in ACLS.

ADVANCED CARDIAC LIFE SUPPORT REQUIREMENTS - COMPLETE 0.5 UNITS

EMC 116	Advanced Cardiac Life Support	0.5

ADVANCED OFFICER TRAINING

Program of Study Code: 005028

Term Effective: Fall 1981

0.50 Units

(707) 836-2912

achapman@santarosa.edu (mailto:achapman@santarosa.edu)

PROGRAM REQUIREMENTS:

This single-course Skills Certificate is designed for the law enforcement employee who must update their training in order to meet state-mandated laws requiring currency in legal and personnel matters.

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe and analyze the specific topic(s) of the course of instruction;
2. application of the knowledge and skill(s) presented in the course;
3. explain the procedure(s) described in the course; and
4. perform the technique(s) presented in the course.

ADVANCED OFFICER TRAINING - COMPLETE 0.5 UNITS

AJ 305.1	Advanced Officer Training	3.0

ANIMAL SCIENCE: LIVESTOCK AND EQUINE MANAGEMENT

Program of Study Code: 003148

Term Effective: Fall 2019

24.00 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

This is a Certificate of Achievement. Animal Science is the study of animals that provide food, fiber, & companionship for mankind. Technological advances in the animal sciences have contributed to a safe, healthy, abundant, & inexpensive food supply. Income from animal agriculture contributes to more than 50 percent of the economic returns of American agriculture to the U.S. economy and accordingly, career opportunities abound for those trained in animal science. The United States Department of Agriculture (USDA) reported that more than 48,000 jobs will be created annually for graduates with expertise in agriculture and related industries. Animal Science isn't just about production of livestock for food and fiber. It also includes today's multi-billion dollar horse industry which is diverse, progressive and incorporates a broad set of technological advancements, requiring individuals who are knowledgeable and skilled to work in this multi-faceted field.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify best management practices strategies for managing horses and/or livestock that will improve animal quality, protect the natural resources and ensure economic viability of the livestock and equine industry; and
2. Define nutritional needs and demonstrate proper feeding techniques; and
3. List common infectious diseases and parasites and explain the role of preventative health and considerations in developing a herd health management plan; and
4. Demonstrate knowledge of practical reproductive management of livestock and/or horses.

EQUINE MANAGEMENT REQUIREMENTS - COMPLETE 24.0 UNITS

ANSCI 2	Introduction to Farm Animal Health	3.0
ANSCI 20	Basic Animal Science	3.0
ANSCI 61	Livestock Feeding and Nutrition	3.0
ANSCI 134	Livestock Reproduction	3.0

Complete any combination totaling at least 1.0 unit from the following:

AGRI 56	Agricultural Enterprise Project	4.0
AGRI 98	Independent Study in Agriculture	3.0
AGRI 99	Agriculture Occupational Work Experience	8.0
AGRI 99I	Agriculture Occupational Work Experience Internship	8.0

Complete any combination totaling at least 9.0 units from the following:

ANSCI 27	Beef Cattle Science	3.0
ANSCI 52	Meat Science	3.0
ANSCI 91	Rangeland Management	3.0
ANSCI 153	Sustainable Agriculture Production Systems with Animals	3.0
EQSCI 25	Equine Science	3.0
EQSCI 80	Equine and Stable Management	3.0
EQSCI 170	Farrier Science	3.0

Complete any combination totaling at least 2.0 units from the following:

AGBUS 2	Agricultural Computer Applications	3.0
AGMEC 50	Agricultural Machinery and Equipment Skills	3.0
WELD 170	Beginning Welding: Fundamentals of Arc and Gas Welding	2.0

APPRENTICESHIP: ELECTRICAL

Program of Study Code: 003343

Term Effective: Fall 2018

41.00 Units

(707) 527-4329

guser73@santarosa.edu (mailto:guser73@santarosa.edu)

PROGRAM REQUIREMENTS:

While completing the Certificate of Achievement in Apprenticeship: Electrician, apprentices are paid while they work and learn. Wages start at 40% of journeyman electrician's wages and increase 5% every six months or one thousand hours.

APPRENTICESHIP: ELECTRICAL - COMPLETE 41.0 UNITS

APED 220.1	Apprentice Electricians, First Semester	4.0
APED 220.2	Apprentice Electricians, Second Semester	4.0
APED 220.3	Apprentice Electricians, Third Semester	4.0
APED 220.4	Apprentice Electricians, Fourth Semester	4.0
APED 220.5	Apprentice Electricians, Fifth Semester	4.0

APED 220.6	Apprentice Electricians, Sixth Semester	4.0
APED 220.7	Apprentice Electricians, Seventh Semester	4.0
APED 220.8	Apprentice Electricians, Eighth Semester	4.0
APED 220.9	Apprentice Electricians, Ninth Semester	4.0
APED220.10	Apprentice Electricians, Tenth Semester	4.0
APED 321	Apprentice Electricians Mathematics Review	1.0

APPRENTICESHIP: PLUMBING & PIPE FITTING

Program of Study Code: 003347

Term Effective: Fall 2018

20.00 Units

(707) 527-4329

guser73@santarosa.edu (mailto:guser73@santarosa.edu)

PROGRAM REQUIREMENTS:

While completing the Apprenticeship: Plumbing & Pipe Fitting Certificate of Achievement, apprentices will be paid while receiving on-the-job training, starting out making a percentage of the Union journey-level wage and receiving pay increases at the end of each six-month training period. Completion of the program takes a minimum of five years. The years are broken down into ten (10) periods. During this time, you will receive on-the-job training. Students will also be required to attend related and supplemental instructional classes in the evenings, two nights per week (with summers off). Apprenticeship program graduates gain the skills and knowledge they need to count themselves among the very best plumbers, steam fitters, refrigeration and air conditioning mechanics in the world.

APPRENTICESHIP: PLUMBING & PIPE FITTING - COMPLETE 20.0 UNITS

APED 345	Apprentice Plumbers, First Semester	2.0
APED 346	Apprentice Plumbers, Second Semester	2.0
APED 347	Apprentice Plumbers, Third Semester	2.0
APED 348	Apprentice Plumbers, Fourth Semester	2.0
APED 349	Apprentice Plumbers, Fifth Semester	2.0

APED 355	Apprentice Plumbers, Sixth Semester	2.0
APED 356	Apprentice Plumbers, Seventh Semester	2.0
APED 357	Apprentice Plumbers, Eighth Semester	2.0
APED 358	Apprentice Plumbers, Ninth Semester	2.0
APED 359	Apprentice Plumbers, Tenth Semester	2.0

APPRENTICESHIP: PLUMBING, HVAC/REFRIGERATION

Program of Study Code: 003345

Term Effective: Fall 2018

39.00 Units

(707) 527-4329

guser73@santarosa.edu (mailto:guser73@santarosa.edu)

PROGRAM REQUIREMENTS:

While completing the Apprenticeship: Plumbing HVAC/Refrigeration Certificate of Achievement, apprentices will be paid while receiving on-the-job training, starting out making a percentage of the Union journey-level wage and receiving pay increases at the end of each six-month training period. Completion of the program takes a minimum of five years. The years are broken down into ten (10) periods. During this time, you will receive on-the-job training. Students will also be required to attend related and supplemental instructional classes in the evenings, two nights per week (with summers off). Apprenticeship program graduates gain the skills and knowledge they need to count themselves among the very best plumbers, steam fitters, refrigeration and air conditioning mechanics in the world.

APPRENTICESHIP: PLUMBING, HVAC/REFRIGERATION - COMPLETE 39.0 UNITS

APED 360	Apprentice Plumbers, HVAC/Refrigeration, First Semester	4.0
APED 361	Apprentice Plumbers, HVAC/Refrigeration, Second Semester	4.0
APED 362	Apprentice Plumbers, HVAC/Refrigeration, Third Semester	3.0
APED 363		

Apprentice Plumbers, HVAC/Refrigeration, Fourth Semester		4.0
APED 364	Apprentice Plumbers, HVAC/Refrigeration, Fifth Semester	4.0
APED 365	Apprentice Plumbers, HVAC/Refrigeration, Sixth Semester	4.0
APED 366	Apprentice Plumbers, HVAC/Refrigeration, Seventh Semester	4.0
APED 367	Apprentice Plumbers, HVAC/Refrigeration, Eighth Semester	4.0
APED 368	Apprentice Plumbers, HVAC/Refrigeration, Ninth Semester	4.0
APED 369	Apprentice Plumbers, HVAC/Refrigeration, Tenth Semester	4.0

APPRENTICESHIP: ROOFING

Program of Study Code: 005083

Term Effective: Fall 2018

5.00 Units

(707) 527-4329

guser73@santarosa.edu (mailto:guser73@santarosa.edu)

PROGRAM REQUIREMENTS:

The Skills Certificate in Apprenticeship: Roofing may be hard work, but it is also very rewarding, particularly for those individuals who are willing to learn and grow as a professional craftsperson. Many apprentice roofers who have moved through apprenticeship have become highly compensated foremen of their own crews with good companies, others have grown into successful roofing contractors or consultants, and some have even come back to the classroom as IRCC trainers. The sky is the limit. Roofing has become increasingly technical and demanding. Skilled workers are sought after and command competitive wages and job security. The IRCC's apprenticeship program for roofers helps you develop those skills, combining classroom instruction with hands-on field exercises and a variety of audio-visual aids.

APPRENTICESHIP: ROOFING - COMPLETE 5.0 UNITS

APED 351.1

Apprentice Roofers, First Semester		0.5
APED 351.2	Apprentice Roofers, Second Semester	0.5
APED351.10	First Aid for Roofers	0.5
APED 351.3	Apprentice Roofers, Third Semester	0.5
APED 351.4	Apprentice Roofers, Fourth Semester	0.5
APED 351.5	Apprentice Roofers, Fifth Semester	0.5
APED 351.6	Apprentice Roofers, Sixth Semester	0.5
APED 351.9	Maintenance, Repair and Reroofing	0.5
APED 351.7	Apprentice Roofers, Seventh Semester	0.5
APED 351.8	Apprentice Roofers, Eighth Semester	0.5

ART: APPLIED PHOTOGRAPHY

Program of Study Code: 003346

Term Effective: Fall 2019

24.00 Units

(707) 527-4297

hfuchigami@santarosa.edu (mailto:hfuchigami@santarosa.edu)

PROGRAM REQUIREMENTS:

The Art: Applied Photography Certificate of Achievement offers a comprehensive foundation in contemporary methods of professional photography. Course work includes digital imaging, processing, studio lighting, event photography and business practices, and the visual language of photography. Curriculum is designed for those entering today's photography industry.

PROGRAM STUDENT LEARNING OUTCOMES

1. Make decisions that optimize conceptual impact of created images
2. Solve creative and technical problems that include project criteria and client expectations
3. Demonstrate full knowledge of single-lens reflex (SLR) & digital single-lens reflex (DSLR) components, medium format, and view camera, as well as exposure controls and light meters
4. Demonstrate mastery of indoor and outdoor lighting, studio lighting techniques, and mixed lighting situations
5. Demonstrate knowledge and skill of digital imaging skills consistent with industry standards

6. Create and present professional level work and a professional portfolio and business plan to meet industry standards

ART: APPLIED PHOTOGRAPHY REQUIREMENTS - COMPLETE 16.0 UNITS

Complete any combination totaling at least 16.0 units from the following:

ART 19	Elementary Photography	3.0
ART 21	Intermediate Black and White Photography	3.0
ART 22	Advanced Black and White Photography	3.0
ART 23	Color Photography	2.0
ART 49	Independent Study in Art	3.0
ART 53	Exhibition Design and Management	1.0
ART 66.1	Studio Photography - Portrait	1.5
ART 66.2	Studio Photography - Product	1.5
ART 66.3	Professional Photography - Event	1.5
ART 66.4	Professional Photography - Architecture	1.5
ART 82	Beginning Digital Photography	3.0
ART 83	Intermediate Digital Photography	3.0
JOUR 59	Photojournalism	3.0
WEOC 99I	Occupational Work Experience Internship	8.0

ART: PHOTOGRAPHY

Program of Study Code: 003090

Term Effective: Fall 2019

30.00 Units

(707) 527-4297

rbreth@santarosa.edu (mailto:rbreth@santarosa.edu)

PROGRAM REQUIREMENTS:

The Art: Photography Certificate of Achievement involves the study and practice of the principles of visual communication: line, shape, form, value, pattern, color, texture, space and composition. Students will study the various problems and potentials of photography, including visual sequencing. They will engage in visual thinking and personal expression through exercises and assignments in the required courses. Students also will be introduced to the work of numerous artists throughout the history of art and photography. Techniques such as photographic composition, toning, black & white and color printing, fiber paper printing, and final photographic presentation will be covered in this program of study.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate appropriate use of essential photographic equipment, materials and processes;
2. synthesize and apply visual principles in works of art;
3. demonstrate skills in visual analysis by identifying specific formal elements in works of art;
4. achieve greater awareness of global traditions; and
5. create a portfolio of archival exhibition prints.

ART CERTIFICATE REQUIREMENTS - COMPLETE 18.0 UNITS

ART 3	Introduction to Art and Design	3.0
ART 4	Principles of Color	3.0
ART 5	Three Dimensional Design	3.0
ART 7A	Drawing and Composition 1	3.0

Complete any combination totaling at least 6.0 units from the following:

ART 1.1	World Art History to 1500	3.0
And		
ART 1.2	World Art History Since 1500	3.0
or		
ART 2.1	History & Aesthetic Appreciation of Prehistoric - Gothic Art	3.0
And		
ART 2.2	History and Appreciation of Late Gothic to Impressionist Art	3.0

PHOTOGRAPHY EMPHASIS REQUIREMENTS - COMPLETE 12.0 UNITS

ART 19	Elementary Photography	3.0
ART 21	Intermediate Black and White Photography	3.0

Complete any combination totaling at least 3.0 units from the following:

ART 22	Advanced Black and White Photography	3.0
ART 62	Alternative Photography Processes	3.0

Complete any combination totaling at least 3.0 units from the following:

ART 23	Color Photography	2.0
ART 53	Exhibition Design and Management	1.0
ART 66.1	Studio Photography - Portrait	1.5
ART 66.2	Studio Photography - Product	1.5
ART 66.3	Professional Photography - Event	1.5
ART 66.4	Professional Photography - Architecture	1.5
ART 83	Intermediate Digital Photography	3.0
JOUR 59	Photojournalism	3.0

NOTES:

No course may be used more than once to fulfill a requirement in the certificate.

AUTOMATION FUNDAMENTALS

Program of Study Code: 005073

Term Effective: Fall 2017

9.00 Units

(707) 527-4603

mpapa@santarosa.edu (mailto:mpapa@santarosa.edu)

PROGRAM REQUIREMENTS:

The Automation Fundamentals Skills Certificate provides skills needed to develop, maintain and troubleshoot computer based testing and control systems. These skills enhance the basic training necessary to perform the work of an electronic technician in both traditional engineering environments and service-related environments. This program was developed in response to request from local high tech manufacturing companies that have a need for electronics technicians trained in specific software tools such as Programmable Logic Controllers and National Instruments LabVIEW development software.

PROGRAM STUDENT LEARNING OUTCOMES

1. Perform measurements of voltage, current and resistance using analog, digital and computer based test equipment.
2. Use computers to monitor and regulate processes and equipment, and to generate reports.
3. Upgrade and maintain both internal and external computer peripherals used for testing and data acquisition.
4. Develop, implement and troubleshoot LabVIEW programs for the purpose of analyzing and controlling virtual and electro-mechanical devices.
5. Create circuit simulations with Multisim for the purpose of testing circuit designs.
6. Write complex programs for Programmable Logic Controllers (PLC).
7. Identify and troubleshoot PLC program problems.

ELECTRONIC TECHNOLOGY: AUTOMATED TESTS AND CONTROLS REQUIREMENT - COMPLETE 9.0 UNITS

ELEC 88	Computer Hardware	3.0
ELEC 153	Programmable Logic Controllers	3.0
ELEC 180	Digital Tools for Electronics	3.0

AUTOMOTIVE TECHNOLOGY

Program of Study Code: 003032

Term Effective: Fall 2019

49.00 Units

(707) 535-3772

dlemmer@santarosa.edu (mailto:dlemmer@santarosa.edu)

PROGRAM REQUIREMENTS:

The Automotive Technology Certificate of Achievement offers both theoretical and hands-on training, including engine overhaul, ignition systems, fuel systems, pollution control systems, electrical systems, drive trains, brake systems and suspension systems.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate safe operation of hand tools, power tools and specialized automotive tools and equipment;
2. perform entry level diagnoses and repair of automotive engines, electrical systems, transmissions, engine performance, brakes, chassis and emissions control systems;
3. demonstrate basic maintenance and welding skills; and
4. access and interpret automotive service information and schematics both manually and on the computer.

AUTOMOTIVE TECHNOLOGY REQUIREMENTS - COMPLETE 48.0 UNITS

AUTO 80	Introduction to Automotive Technology	3.0
AUTO 126	Mobile Heating and Air Conditioning Systems	2.5
AUTO 151	Automotive Engines	7.0
AUTO 153	Automotive Engine Performance and Pollution Control	7.0
AUTO 154	Automotive Brakes, Steering, and Suspension	7.0
AUTO 155	Automotive Drive Train	6.0
AUTO 156	Automotive Electrical System	5.0
AUTO 194	Introduction to Hybrid Vehicle Maintenance and Repair	4.0
IED 190	Industrial Mathematics	1.5
WELD 170	Beginning Welding: Fundamentals of Arc and Gas Welding	2.0

Complete any combination totaling at least 3.0 units from the following:

AUTO 99	Automotive Occupational Work Experience	8.0
AUTO 108	Clean Air Car Course: BAR Levels 1 & 2	5.0
AUTO 120	Automotive Service Advisor, Business Ethics, and Management	3.0
BGN 101	Typing	1.5
ELEC 51A	Fundamentals of Electricity	3.0

MACH 51A	Beginning Machine Tool Technology	2.0
MACH 51B	Advanced Machine Tool Technology	2.0
WELD 171.1	Advanced Shielded Metal Arc Welding	2.0
WELD 171.2	Gas Metal Arc Welding and Gas Tungsten Arc Welding	2.0
WELD 171.3	Flux Core Arc Welding (FCAW)	2.0

AUTOMOTIVE TECHNOLOGY: BRAKES, STEERING AND SUSPENSION SPECIALIST

Program of Study Code: 003298

Term Effective: Fall 2017

7.00 Units

(707) 535-3772

dlemmer@santarosa.edu (mailto:dlemmer@santarosa.edu)

PROGRAM REQUIREMENTS:

The Automotive Technology: Brakes, Steering and Suspension Specialist Skills Certificate offers an in-depth study of drivetrain systems, including operation, diagnosis, service and overhaul of most automatic and manual transmissions and trans axles, drive axles and all wheel drive system. The certificate prepares students to pass the A2 and A3 ASE (Automotive Service Excellence) certification exams.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate the knowledge needed to pass the A.S.E. Brake, Suspension, and Steering certificate exams.

AUTOMOTIVE TECHNOLOGY: BRAKES, STEERING AND SUSPENSION SPECIALIST REQUIREMENTS - COMPLETE 7.0 UNITS

AUTO 154	Automotive Brakes, Steering, and Suspension	7.0

NOTES:

The certificate will be awarded upon completion of the course with a grade of "C" or better.

AUTOMOTIVE TECHNOLOGY: ELECTRIC AND ELECTRONIC SYSTEMS SPECIALIST

Program of Study Code: 005054

Term Effective: Fall 2015

5.00 Units

(707) 535-3772

dlemmer@santarosa.edu (mailto:dlemmer@santarosa.edu)

PROGRAM REQUIREMENTS:

The Automotive Technology: Electric and Electronic Systems Specialist Skills Certificate covers the fundamentals of automotive electrical and electronic systems including service and repair of starting, charging, and other chassis electrical systems. This certificate prepares students to pass the A6 ASE (Automotive Service Excellence) certification exam.

PROGRAM STUDENT LEARNING OUTCOMES

1. Utilize different types of electrical diagnostic test equipment.

AUTOMOTIVE TECHNOLOGY: ELECTRIC AND ELECTRONICS SYSTEMS SPECIALIST REQUIREMENTS - COMPLETE 5.0 UNITS

AUTO 156	Automotive Electrical System	5.0

NOTES:

The Certificate is awarded upon completion of the course with a grade of "C" or better.

AUTOMOTIVE TECHNOLOGY: ENGINE REPAIR SPECIALIST

Program of Study Code: 003299

Term Effective: Fall 2018

7.00 Units

(707) 535-3772

dlemmer@santarosa.edu (mailto:dlemmer@santarosa.edu)

PROGRAM REQUIREMENTS:

The Automotive Technology: Engine Repair Specialist Skills Certificate trains students in the theory, design, operation, troubleshooting and overhaul of internal combustion automobile engines and prepares students to pass the A1 ASE (Automotive Service Excellence) Engine Repair certification exam.

PROGRAM STUDENT LEARNING OUTCOMES

1. Troubleshoot and overhaul an internal combustion automobile engine.

AUTOMOTIVE TECHNOLOGY: ENGINE REPAIR SPECIALIST REQUIREMENTS - COMPLETE 7.0 UNITS

AUTO 151	Automotive Engines	7.0

NOTES:

The Certificate is awarded upon completion of the course with a grade of "C" or better.

AUTOMOTIVE TECHNOLOGY: MOBILE HEATING AND AIR CONDITIONING SYSTEMS

Program of Study Code: 005055

Term Effective: Fall 2019

5.50 Units

(707) 535-3772

dlemmer@santarosa.edu (mailto:dlemmer@santarosa.edu)

PROGRAM REQUIREMENTS:

The Automotive Technology: Heating and Air Conditioning Systems Specialist Skills Certificate trains students in the theory, service, and repair of many types of automotive air conditioning and heating systems. The certificate prepares students to pass the A7 ASE (Automotive Service Excellence) certification exam.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify and describe the theory, service and repair of common types of automotive heating and air conditioning systems.

AUTOMOTIVE TECHNOLOGY: MOBILE HEATING AND AIR CONDITIONING SYSTEMS - COMPLETE 5.5 UNITS

AUTO 126	Mobile Heating and Air Conditioning Systems	2.5

Complete any combination totaling at least 3.0 units from the following:

AUTO 80	Introduction to Automotive Technology	3.0
DET 179	Diesel Equipment Foundation and Safety	3.0

NOTES:

The Certificate is awarded upon completion of the course with a grade of "C" or better.

AUTOMOTIVE TECHNOLOGY: POWERTRAIN SYSTEMS PERFORMANCE & ELECTRONICS SPECIALIST

Program of Study Code: 005078

Term Effective: Fall 2015

12.00 Units

(707) 535-3772

dlemmer@santarosa.edu (mailto:dlemmer@santarosa.edu)

PROGRAM REQUIREMENTS:

The Automotive Technology: Powertrain Systems Performance & Electronics Specialist Certificate prepares students to pass the A6 and A8 ASE (Automotive Service Excellence) Certification Exams.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify and define function of sensors, actuators and powertrain components
2. Use diagnostic tools and equipment to analyze and diagnose common problems
3. Utilize different types of electrical diagnostic test equipment.

AUTOMOTIVE TECHNOLOGY: POWERTRAIN SYSTEMS PERFORMANCE & ELECTRONICS SPECIALIST - COMPLETE 12.0 UNITS

AUTO 153	Automotive Engine Performance and Pollution Control	7.0
AUTO 156	Automotive Electrical System	5.0

AUTOMOTIVE TECHNOLOGY: TRANSMISSION SPECIALIST

Program of Study Code: 003300

Term Effective: Spring 2019

12.00 Units

(707) 535-3772

dlemmer@santarosa.edu (mailto:dlemmer@santarosa.edu)

PROGRAM REQUIREMENTS:

The Automotive Technology: Transmission Specialist Skills Certificate offers an in-depth study of automotive drivetrain systems, including operation, diagnosis, service and overhaul of most automotive automatic and manual transmissions and trans axles, drive axles and all wheel drive systems. Diagnosis of modern drivetrain systems is emphasized. The certificate prepares students to pass the A2 and A3 ASE (Automotive Service Excellence) certification exams.

PROGRAM STUDENT LEARNING OUTCOMES

1. Inspect, evaluate, diagnose and repair automotive drivetrain components.

AUTOMOTIVE TECHNOLOGY: TRANSMISSION SPECIALIST REQUIREMENTS - COMPLETE 6.0 UNITS

AUTO 155	Automotive Drive Train	6.0

NOTES:

The Certificate is awarded upon completion of the course with a grade of "C" or better.

BACKGROUND INVESTIGATION

Program of Study Code: 005033

Term Effective: Fall 2011

1.00 Units

(707) 836-2909

carnold@santarosa.edu (mailto:carnold@santarosa.edu)

PROGRAM REQUIREMENTS:

This single-course certificate is designed for those individuals who conduct preemployment personnel background investigations for public safety employment. The student will be introduced to the federal and state fair employment laws, job dimensions, job traits, and essential functions of the background investigator.

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe the background investigation process;
2. demonstrate the responsibilities involved in conducting a public safety pre-employment background investigation;
3. explain the role of the California Commission on Peace Officer Standards and Training (POST) as a resource for conducting a pre-employment background investigation; and
4. recognize the laws and regulations involved in the background investigation process.

BACKGROUND INVESTIGATION - COMPLETE 1.0 UNIT

AJ 350	Background Investigation	1.0

BASIC ACADEMIC SKILLS

Program of Study Code: 005059

Term Effective: Fall 2018

0.00 Units

(707) 527-4834

cvalencia@santarosa.edu (mailto:cvalencia@santarosa.edu)

PROGRAM REQUIREMENTS:

The Certificate of Completion in Basic Academic Skills provides basic math, reading, writing, and technology skills to prepare students for the developmental level credit program at Santa Rosa Junior college and for the workplace.

PROGRAM STUDENT LEARNING OUTCOMES

1. Solve multi-step numerical and word math problems ranging from basic operations through beginning concepts in geometry and algebra;
2. at the collegiate level, identify and summarize the main ideas and important details in short (1-2 page) reading selections, including fiction, essays, newspaper articles, material from textbooks, and informational websites;
3. at the pre-collegiate level, prepare for and write a clear and coherent 1-2 page essay that addresses a given topic;
4. proofread for and apply basic rules of Edited American English, including capitalization, punctuation, sentence construction and grammar;
5. prepare for and apply appropriate test-taking strategies to standardized tests such as the GED, English and Math Placement Tests and occupational skills tests; and
6. use SRJC online systems and resources such as counseling to identify an educational goal and enroll in appropriate credit classes.

NON-CREDIT BASIC ACADEMIC SKILLS REQUIREMENTS - COMPLETE 0.0 UNITS

CSKLS 731	Academic Skills I	0.0
CSKLS 732	Academic Skills II	0.0
CSKLS 733	Academic Skills III	0.0

NOTES:

3 courses needed for this certificate

Required Courses: CSKLS 731, CSKLS 732, CSKLS 733

BASIC ARRHYTHMIA RECOGNITION COURSE

Program of Study Code: 005021

Term Effective: Fall 2009

2.00 Units

(707) 836-2920

jsnow@santarosa.edu (mailto:jsnow@santarosa.edu)

PROGRAM REQUIREMENTS:

This program is a Skills Certificate.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify a normal electrocardiogram; and
2. identify common abnormal cardiac rhythms.

BASIC ARRHYTHMIA RECOGNITION COURSE REQUIREMENTS - COMPLETE 2.0 UNITS

EMC 114	Basic Arrhythmia Recognition Course	2.0

BASIC POLICE OFFICER ACADEMY

Program of Study Code: 003327

Term Effective: Fall 2011

21.00 Units

(707)836-2910

lbrown@santarosa.edu (mailto:lbrown@santarosa.edu)

PROGRAM REQUIREMENTS:

The Basic Police Officer Academy Certificate of Achievement provides all academic and physical skill training and assessment required by the State of California Commission on Peace Officer Standards and Training. It is required training for anyone serving as a peace officer in the state of California. The program provides the opportunity to observe, develop and employ the behavior traits of a professional peace officer in a controlled setting. The Academy is available in two formats: Intensive (20 weeks) and Modular (11 months).

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify, define and demonstrate basic tasks of peace officers;
2. identify, classify, and apply appropriate provisions of federal and state law related to peace officers;
3. perform and document complete preliminary investigations assigned to peace officers; and
4. demonstrate the physical skills needed to perform the tasks of a peace officer in the areas of driving, shooting, defensive tactics, and first aid.

BASIC POLICE OFFICER ACADEMY CORE REQUIREMENTS - COMPLETE 21.0 UNITS

Complete any combination totaling at least 21.0 units from the following:

AJ 223	Basic Police Academy	21.0
AJ 222A	Modular Basic Police Academy - Level III	4.5
And		
AJ 222B	Modular Basic Police Academy - Level II	6.0
And		
AJ 222C	Modular Basic Police Academy - Level I	11.0

BREWING

Program of Study Code: 003338

Term Effective: Fall 2017

14.50 Units

(707) 535-3707

cwills@santarosa.edu (mailto:cwills@santarosa.edu)

PROGRAM REQUIREMENTS:

The Brewing Certificate of Achievement will teach the science of craft brewing. The program is designed to be taken as paired classes. The first pair is Fundamentals of Brewing and Brewing Analysis where students will learn about the brewing process and discover the impact of different ingredients through the creation of pilot scale beers. The second pair of classes is Brewery Operations and Technology and Applied Brewing Science where students will learn about and work with commercial brewery equipment to create many different styles of beer. This certificate is appropriate for those wanting to hone their home brewing skills or start a new career in the craft brewing business.

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe the raw materials used in brewing, and their sources, and demonstrate their impact on finished beer through small batch brewing.
2. Apply knowledge of brewery systems and equipment to produce beer on a commercial scale.
3. Evaluate beer color, aroma, and flavor, and identify defects.

BREWING REQUIREMENTS - COMPLETE 14.5 UNITS

BREW 100	Fundamentals of Fermentation Science	3.0
BREW 112	Analysis of Fermentation	3.0
BREW 120	Brewery Operations and Technology	3.0
BREW 122	Applied Fermentation Science	3.0
CUL 250	Sanitation and Safety	1.0
HOSP 53	Customer Service	1.5

NOTES:

Students are encouraged to take WEOC 99 as an internship at a local brewery.

BUSINESS: ACCOUNT CLERK AND PAYROLL

Program of Study Code: 003274

Term Effective: Fall 2019

16.00 Units

(707) 778-3961

bwithers@santarosa.edu (mailto:bwithers@santarosa.edu)

PROGRAM REQUIREMENTS:

The Business: Account Clerk and Payroll Certificate of Achievement prepares the student as an entry-level accounts payable/accounts receivable clerk, with responsibilities including data entry. The curriculum includes basic accounting concepts, records management, spreadsheets, specialized payroll accounting, and reporting procedures, and other entry-level skills. Payroll is a specialized area of accounting with complicated federal and state government reporting and legal requirements. Employment opportunities exist in various business and government sectors, payroll service companies, and accounting firms. The payroll assistant generally reports to the payroll supervisor or accountant and will be involved in activities such as time tracking, record keeping, balancing payroll accounts, and tax returns. Account Clerks perform tasks such as recording daily transactions in journals, posting figures into ledgers, handling payments and receipts, and computing payrolls. It requires skill in the operation of 10-key calculators, computers, and other office equipment. Programs encompass the integration of 21st Century workforce skills emphasizing communication, teamwork, project management, and problem-solving. Students desiring more advanced skills may wish to pursue the Bookkeeping Certificate of Achievement. Completion of the Business: Account Clerk and Payroll Skills Certificate fulfills a portion of the Bookkeeper Certificate of Achievement program. The employment outlook is very good. With additional training, individuals can progress to bookkeeper, accountant, and CPA (Certified Public Accountant).

PROGRAM STUDENT LEARNING OUTCOMES

1. Analyze, categorize, calculate, record and report selected financial information and commonly used financial statements and related reports, using generally accepted accounting principles (GAAP);
2. analyze, categorize, calculate, record and report basic advanced payroll information including payment of wages along with associated payroll tax liabilities; for both and state tax entities;
3. calculate, analyze, and interpret a variety of mathematical business problems, comparisons, and elementary statistics;
4. demonstrate effective oral and written communication skills to record and report various Human Resource, Payroll benefit, and financial information and job seeking skills;
5. use a computer to tabulate, calculate, record, organize and report financial information; and
6. effectively use computer keyboard, 10-Key, and other modern devices to calculate, tabulate, and assist in reporting and recording of financial information.

PAYROLL/ACCOUNT CLERK REQUIREMENTS - COMPLETE 16.0 UNITS

BBK 50	Computerized Bookkeeping and Accounting 1	3.0
BBK 52.1	Payroll Record Keeping and Reporting	3.0
BBK 53.1	QuickBooks Level 1	1.5
BGN 81	Practical Business Math Skills	3.0
BGN 203	Self-Paced 10-Key Numeric Keypad	0.5
CS 60.11A	Microsoft Word, Part 1	1.5
CS 61.11A	Microsoft Excel, Part 1	1.5

Complete any combination totaling at least 1.5 units from the following:

BGN 110	Exploring Business Careers	1.0
BGN 111	Soft Skills for Business	3.0
BGN 112	Marketing Your Skills	3.0
BGN 205	Basic Filing	0.5
CS 63.11A	Microsoft Access, Part 1	1.5
CS 167.11	Microsoft Outlook	0.5
HR 62	Human Resource Records	1.0
HR 64	Human Resource Salary Administration	1.0
HR 65	Human Resource Benefits Administration	1.5

Complete any combination totaling at least 0.5 units from the following:

BGN 101	Typing	1.5
BGN 102	Typing-Skill Building	1.5
BGN 201	Basic Keyboarding	0.5

NOTES:

Recommended preparation: BGN101 (Typing) or equivalent.

BUSINESS: ACCOUNTANT ASSISTANT

Program of Study Code: 003043

Term Effective: Fall 2019

17.00 Units

(707) 527-4435

glord@santarosa.edu (mailto:glord@santarosa.edu)

PROGRAM REQUIREMENTS:

The Business: Accountant Assistant Certificate of Achievement program is designed for students who are currently employed in accounting to enhance existing skills, and for those students who wish to enter the field of accounting without a four-year degree.

PROGRAM STUDENT LEARNING OUTCOMES

1. Complete the steps in the accounting cycle and know generally accepted accounting principles that determine how transactions are recorded and reported;
2. analyze, record, summarize, and report the effects of transactions in financial, managerial and tax reports and interpret the accounting information for internal or external decision making purposes;
3. complete and use managerial and cost accounting documents and reports to plan, evaluate, and control the operations of a company and interpret those reports for management ;
4. prepare personal tax returns demonstrating knowledge of tax rules, tax research sources, and tax forms;

5. complete professional assignments using computer technology in such applications as word, excel, power point, general ledger software and tax preparation software; and
6. demonstrate critical thinking skills, analytical ability, interpersonal and collaborative skills, and the ability to write business reports.

BUSINESS: ACCOUNTANT ASSISTANT REQUIREMENTS - COMPLETE 17.0 UNITS

BAD 1	Financial Accounting	4.0
BAD 2	Managerial Accounting	4.0
BAD 53	Introduction to Solving Business Problems w/Spreadsheets	1.5
BAD 55	Intermediate Accounting	3.0

Complete any combination totaling at least 4.5 units from the following:

BAD 57	Cost Accounting	3.0
BAD 59	Federal Income Tax Law	3.0
BAD 156	Fund Accounting	3.0
BBK 53.1	QuickBooks Level 1	1.5
BBK 53.2	QuickBooks Level 2	1.5

BUSINESS: BANKING AND LENDING

Program of Study Code: 003349

Term Effective: Fall 2018

22.50 Units

(707) 778-3961

bwithers@santarosa.edu (mailto:bwithers@santarosa.edu)

PROGRAM REQUIREMENTS:

The Business: Banking and Lending Certificate of Achievement qualifies students for employment as Loan Processor, Loan Analyst, Credit Analyst, Loan Underwriter, Commercial Servicing Specialist, Commercial Operations Specialist, and related occupations in both the consumer and commercial banking and lending fields. The certificate also serves as a pathway to employment as a loan officer, with additional education/training and work experience.

PROGRAM STUDENT LEARNING OUTCOMES

1. Process and analyze complex financial statements, tax schedules, and related loan documents; analyze and project cash flows, calculate common financial, debt to income, and loan-to-value ratios in order to make well-informed lending recommendations.
2. Analyze customers' credit worthiness; explain and interpret FICO scores and credit reports from major credit reporting bureaus.

3. Explain common bank/lending institution business services and operations, including consumer and commercial lending procedures.
4. Explain and ensure compliance with complex banking and SBA lending regulations, “Banker’s Alphabet” and other fair lending laws, and ethics of banking.
5. Exhibit excellent soft skills including verbal and written communication, customer service skills, effective team work, effective time management, and ability to work under strict deadlines.

BUSINESS: BANKING AND LENDING - COMPLETE 22.5 UNITS

BGN 155	Introduction to Banking	3.0
BGN 156	Credit and Lending Analysis	3.0
BAD 53	Introduction to Solving Business Problems With Spreadsheets	1.5
BGN 81	Practical Business Math Skills	3.0

Complete any combination totaling at least 3.0 units from the following:

BAD 52	Human Relations in Organizations	3.0
BGN 111	Soft Skills for Business	3.0

Complete any combination totaling at least 3.0 units from the following:

BGN 71	Business English Grammar	3.0
ENGL 1A	College Composition	4.0

Complete any combination totaling at least 3.0 units from the following:

BAD 1	Financial Accounting	4.0
BMG 55	Business Management Accounting	3.0

Complete any combination totaling at least 3.0 units from the following:

BAD 10	American Business in Its Global Context	3.0
BAD 18	The Legal Environment of Business	3.0
RE 50	Real Estate Principles	3.0
RE 53	Residential Real Estate Appraisal	3.0
WEOC 99	Occupational Work Experience	8.0
WEOC 99I	Occupational Work Experience Internship	8.0

BUSINESS: BOOKKEEPER

Program of Study Code: 003118

Term Effective: Fall 2019

25.00 Units

(707) 778-3961

bwithers@santarosa.edu (mailto:bwithers@santarosa.edu)

PROGRAM REQUIREMENTS:

The Business: Bookkeeper Certificate of Achievement prepares the student as an entry-level bookkeeper working with the accountant in summarizing financial data and preparing financial statements. Students are trained to be members of an organization's team with the ability to exercise initiative and judgment, train co-workers, use technology, and assume responsibility without direct supervision.

PROGRAM STUDENT LEARNING OUTCOMES

1. Analyze, categorize, calculate, record and report detailed financial information and commonly used financial statements and related reports, using generally accepted accounting principles (GAAP);
2. analyze, categorize, calculate, record and report detailed payroll information including payment of wages along with associated payroll taxes and other liabilities;
3. calculate, analyze and interpret a variety of mathematical business problems, ratios, comparisons, elementary statistics, and trends;
4. demonstrate effective oral and written communication skills to report financial information and job seeking skills;
5. use a computer to tabulate, calculate, record, organize and report financial information; and
6. effectively use a computer keyboard, 10-key, and other modern devices to calculate, tabulate and assist in reporting and recording of financial information.

BOOKKEEPER REQUIREMENTS - COMPLETE 25.0 UNITS

BBK 50	Computerized Bookkeeping and Accounting 1	3.0
BBK 52.1	Payroll Record Keeping and Reporting	3.0
BBK 53.1	QuickBooks Level 1	1.5
BBK 53.2	QuickBooks Level 2	1.5
BGN 81	Practical Business Math Skills	3.0
BGN 203	Self-Paced 10-Key Numeric Keypad	0.5
CS 60.11A	Microsoft Word, Part 1	1.5
CS 61.11A	Microsoft Excel, Part 1	1.5
CS 61.11B	Microsoft Excel, Part 2	1.5

Complete any combination totaling at least 3.0 units from the following:

BAD 1	Financial Accounting	4.0
BBK 51	Computerized Bookkeeping and Accounting 2	3.0

Complete any combination totaling at least 0.5 units from the following:

BGN 101	Typing	1.5
BGN 102	Typing-Skill Building	1.5
BGN 201	Basic Keyboarding	0.5

Complete any combination totaling at least 1.5 units from the following:

HR 62	Human Resource Records	1.0
HR 64		

Human Resource Administration	Salary	1.0
HR 65	Human Resource Benefits Administration	1.5

Complete any combination totaling at least 3.0 units from the following:

BGN 205	Basic Filing	0.5
BGN 110	Exploring Business Careers	1.0
BGN 111	Soft Skills for Business	3.0
BGN 112	Marketing Your Skills	3.0
BOT 99.2I	Bookkeeper Internship	8.0
CS 63.11A	Microsoft Access, Part 1	1.5
CS 167.11	Microsoft Outlook	0.5

NOTES:

BOT 99.2I should be taken in the final semester of the program.

BOT 99.2I is to be taken for a minimum of 2.0 units

BUSINESS: BOOKKEEPER ASSISTANT

Program of Study Code: 003119

Term Effective: Fall 2018

22.50 Units

(707) 778-3961

bwithers@santarosa.edu (mailto:bwithers@santarosa.edu)

PROGRAM REQUIREMENTS:

The Business: Bookkeeper Assistant Certificate of Achievement prepares the student as an assistant in recording financial data in various phases of accounting operations, with emphasis on the use of various computer software programs.

PROGRAM STUDENT LEARNING OUTCOMES

1. Analyze, categorize, calculate, record and report a variety of financial information and commonly used financial statements and related reports, using generally accepted accounting principles (GAAP);
2. analyze, categorize, calculate, record and report basic payroll information including payment of wages along with associated payroll taxes and other liabilities;
3. calculate, analyze, and interpret a variety of mathematical business problems, ratios, comparisons, elementary statistics, and trends;
4. demonstrate effective oral and written communication skills to report financial information and job seeking skills;
5. use a computer to tabulate, calculate, record, organize and report financial information; and
6. Effectively use computer keyboard, 10-Key, and other modern devices to calculate, tabulate, and assist in reporting and recording of financial information.

BOOKKEEPER ASSISTANT REQUIREMENTS - COMPLETE 22.5 UNITS

BBK 50	Computerized Bookkeeping and Accounting 1	3.0
BBK 51	Computerized Bookkeeping & Accounting 2	3.0
BBK 53.1	QuickBooks Level 1	1.5
BBK 53.2	QuickBooks Level 2	1.5
BGN 71	Business English Grammar	3.0
BGN 81	Practical Business Math Skills	3.0
BGN 110	Exploring Business Careers	1.0
BGN 203	Self-Paced 10-Key Numeric Keypad	0.5
BGN 205	Basic Filing	0.5
CS 60.11A	Microsoft Word, Part 1	1.5
CS 61.11A	Microsoft Excel, Part 1	1.5
CS 61.11B	Microsoft Excel, Part 2	1.5
CS 167.11	Microsoft Outlook	0.5

Complete any combination totaling at least 0.5 units from the following:

BGN 201	Typing Self-Paced	0.5
BGN 102	Typing-Skill Building	1.5

NOTES:

Recommended preparation: BGN 101 (Typing) or equivalent.

BUSINESS: ENROLLED AGENT (TAX)

Program of Study Code: 003340

Term Effective: Fall 2017

12.00 Units

(707) 527-4206

glord@santarosa.edu (mailto:glord@santarosa.edu)

PROGRAM REQUIREMENTS:

The Business: Enrolled Agent (Tax) Certificate of Achievement is designed to provide students with a solid base of knowledge and skills to allow them to work in the field of taxation. The classes are tailored to meet the exam requirements to be licensed as an Enrolled Agent. In addition to the specific knowledge and skills needed to understand and apply the tax code to different entities, students will also gain an understanding about the responsibilities of an Enrolled Agent.

PROGRAM STUDENT LEARNING OUTCOMES

1. Prepare tax returns for individuals, businesses and partnerships.

2. Apply IRS (Internal Revenue Service) code to determine income, expenses and other credits/deductions.
3. Implement the filing requirements, and documentation needed by the IRS for different entities.
4. Utilize the proper authority, responsibility and due diligence of an Enrolled Agent.

BUSINESS: ENROLLED AGENT TAX REQUIREMENTS - COMPLETE 12.0 UNITS

BAD 101	Enrolled Agent – Individual Taxation	3.0
BAD 102	Enrolled Agent - Business Taxation	3.0
BAD 103	Enrolled Agent - Tax Representations, Practices & Procedures	3.0
BAD 104	Enrolled Agent – Current Applications and IRS Requirements	3.0

BUSINESS: ENTREPRENEURSHIP

Program of Study Code: 003005

Term Effective: Fall 2019

9.00 Units

(707) 527-4435

wcomings@santarosa.edu (mailto:wcomings@santarosa.edu)

PROGRAM REQUIREMENTS:

The Business: Entrepreneurship Certificate of Achievement is designed to provide students of any discipline with the tools and skills required to organize and plan their own business launch.

PROGRAM STUDENT LEARNING OUTCOMES

1. Design, test, and assess business models for exploiting a new business opportunity, financial management or to change and grow an existing business.
2. Demonstrate a working knowledge of socially responsible and sustainable business practices
3. Acquire tools for assessing product and market fit including understanding target markets and market segmentation, brand building, and performing effective industry and competitive analyses

BUSINESS: ENTREPRENEURSHIP PROGRAM REQUIREMENTS - COMPLETE 9.0 UNITS

BMK 50	Marketing	3.0
ESHIP 106	Venture Launch	3.0
ESHIP 101	Innovation	3.0

BUSINESS: ENTREPRENEURSHIP PROGRAM COURSE ELECTIVES - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

ESHIP 115	Financial Basics and Cash Flow	1.5
ESHIP 116	Ethics, Responsibility, and Sustainability	1.5
ESHIP 117	Communications for Start-Ups	1.5
WEOC 99I	Occupational Work Experience Internship	8.0

BUSINESS: HUMAN RESOURCE ADMINISTRATION

Program of Study Code: 003325

Term Effective: Fall 2019

26.50 Units

(707) 527-4435

ewebster@santarosa.edu (mailto:ewebster@santarosa.edu)

PROGRAM REQUIREMENTS:

Within every organization, at least one employee is responsible for the Human Resources activities. The Human Resource Administration Certificate of Achievement program of study provides students with the opportunity to gain skills that can be applied to any organization. These involve compliance with employment law when maintaining personnel files, tracking employee leaves, administering employee benefits, administering and regulating salaries, and maintaining payroll. Students learn how to handle confidential information and sensitive situations.

PROGRAM STUDENT LEARNING OUTCOMES

1. Interpret and apply employment laws in a variety of complex human resource situations;
2. demonstrate competency in specific human resource administrative responsibilities in the areas of hiring, salary administration, benefits administration, and records administration;
3. apply necessary skills required for managing the complex human interactions and communications that take place in organizations; and
4. demonstrate an understanding of the strategic role of human resource management in a modern organizational setting; and
5. demonstrate the technical skills needed in the human resources field.

BUSINESS: HUMAN RESOURCE ADMINISTRATION REQUIREMENTS - COMPLETE 16.0 UNITS

BAD 52	Human Relations in Organizations	3.0

BMG 53	Oral Communication in Organizations	3.0
HR 60	Human Resource Management	3.0
HR 61	Human Resource Employment Law	1.5
HR 62	Human Resource Records	1.0
HR 63	Human Resource Hiring Process	1.0
HR 64	Human Resource Salary Administration	1.0
HR 65	Human Resource Benefits Administration	1.5
HR 66	Human Resource Administration Current Applications	1.0

BUSINESS: HUMAN RESOURCE ADMINISTRATION ELECTIVES A - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

BAD 1	Financial Accounting	4.0
BBK 50	Computerized Bookkeeping and Accounting 1	3.0
BBK 52.1	Payroll Record Keeping and Reporting	3.0
BGN 112	Marketing Your Skills	3.0
BMG 55	Fundamentals of Financial Analysis	3.0
HR 99I	Human Resources Occupational Work Experience Intern	8.0
PSYCH 34	The Psychology of Prejudice and Discrimination	3.0

BUSINESS: HUMAN RESOURCE ADMINISTRATION ELECTIVES B - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

CS 61.11	Microsoft Excel	3.0
CS 61.11A	Microsoft Excel, Part 1	1.5
CS 61.11B	Microsoft Excel, Part 2	1.5

BUSINESS: HUMAN RESOURCE ADMINISTRATION ELECTIVES C - COMPLETE 4.5 UNITS

Complete any combination totaling at least 4.5 units from the following:

BGN 71	Business English Grammar	3.0
BGN 100	Professional Business Writing	1.5
BMG 52	Business Communication	3.0
ENGL 1A	College Composition	4.0

PROGRAM REQUIREMENTS NOTES:

HR 66 must be the final course taken in the sequence for this program.

NOTES:

HR 60 is the orientation course for this program.

BUSINESS: MARKETING

Program of Study Code: 003122

Term Effective: Fall 2019

12.00 Units

(707) 527-4235

rgattinella@santarosa.edu (mailto:rgattinella@santarosa.edu)

PROGRAM REQUIREMENTS:

Business: Marketing Certificate of Achievement prepares students to get an internship or entry level marketing position with a local business or non-profit, prepare for further marketing studies at a four-year college, improve marketing skills in their current job, or successfully market their own business.

PROGRAM STUDENT LEARNING OUTCOMES

1. Design and develop a strategic marketing plan that can be used to launch a new business, enter new markets, or grow an existing business or nonprofit;
2. Understand how to use a broad range of marketing tactics to build and promote a successful business or nonprofit;
3. relate current trends, buying behaviors, and social responsibility to effective market planning functions within an organization. And
4. Demonstrate specific marketable skills such as advertising campaign development, basic graphic design competency, or spreadsheet usage that will enhance business success and employment opportunities.

BUSINESS: MARKETING REQUIREMENTS - COMPLETE 12.0 UNITS

BMK 50	Marketing	3.0
BMK 54	Advertising	3.0
BMK 57	Introduction to Public Relations	1.5
BMK 59	Consumer Behavior	1.5

Complete any combination totaling at least 3.0 units from the following:

ART 82	Beginning Digital Photography	3.0
BAD 53	Introduction to Solving Business Problems With Spreadsheets	1.5
BMK 155	Digital Marketing Tools	1.5
CS 50A	Web Development 1	3.0
CS 70.11A	Adobe Photoshop 1	3.0
CS 71.11	Adobe Illustrator 1	3.0
CS 72.11A	Adobe InDesign 1	3.0

GD 20	Introduction to Typography and Letterforms	3.0
GD 51	Introduction to Graphic Design	3.0
GD 54	Beginning Page Layout and Advertising Design	3.0
MEDIA 20	Introduction to Digital Filmmaking	4.0

NOTES:

Upon completion of the Marketing Certificate, students are encouraged to seek out internships through **SRJC's Work Experience department (https://workexperience.santarosa.edu)**.

BUSINESS: PAYROLL

Program of Study Code: 003067

Term Effective: Fall 2018

12.00 Units

(707) 778-3961

bwithers@santarosa.edu (mailto:bwithers@santarosa.edu)

PROGRAM REQUIREMENTS:

The Business: Payroll Skills Certificate provides students an opportunity to specialize in payroll accounting and to qualify for entry-level payroll positions in industry or in a payroll service. The curriculum includes basic accounting concepts along with specialized payroll accounting and reporting procedures.

PROGRAM STUDENT LEARNING OUTCOMES

1. Analyze, categorize, calculate, record and report selected financial information and commonly used financial statements and related reports, using generally accepted accounting principles (GAAP);
2. analyze, categorize, calculate, record and report advanced payroll information including payment of wages along with associated payroll tax liabilities, for both federal and state tax entities;
3. demonstrate effective oral and written communication skills to record and report various Human Resource and Payroll Benefits information; and
4. effectively use computer, 10-Key, and other modern devices to calculate, tabulate, and assist in reporting and recording of financial information.

BUSINESS: PAYROLL REQUIREMENTS - COMPLETE 12.0 UNITS

BBK 52.1	Payroll Record Keeping and Reporting	3.0
BGN 203	Self-Paced 10-Key	0.5
CS 60.11A	Microsoft Word, Part 1	1.5
CS 61.11A	Microsoft Excel, Part 1	1.5

Complete any combination totaling at least 3.0 units from the following:

BAD 1	Financial Accounting	4.0
BBK 50	Computerized Bookkeeping and Accounting I	3.0

Complete any combination totaling at least 0.5 units from the following:

BGN 101	Typing	1.5
BGN 102	Typing-Skill Building	1.5
BGN 201	Typing Self-Paced	0.5

Complete any combination totaling at least 2.0 units from the following:

HR 62	Human Resource Records	1.0
HR 64	Human Resource Salary Administration	1.0
HR 65	Human Resource Benefits Administration	1.5

NOTES:

Recommended preparation: CS 101A Personal Computers for New Users or equivalent.

BUSINESS: REAL ESTATE

Program of Study Code: 003061

Term Effective: Fall 2019

18.00 Units

(707) 527-4362

sherndon@santarosa.edu (mailto:sherndon@santarosa.edu)

PROGRAM REQUIREMENTS:

The Business: Real Estate Certificate of Achievement offers those interested in the field of real estate the opportunity to complete the necessary education requirements as defined by the California Department of Real Estate. The series of courses satisfies the educational requirements for obtaining and maintaining the State Real Estate Broker and Salesperson Licenses.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply an in-depth knowledge of California Real estate principles and laws to successfully complete licensure requirements for licensee and broker;
2. satisfy Department of Real Estate and Office of Real Estate Appraisers educational requirements for state licensing;
3. apply necessary skills required for marketing and negotiating real estate transaction;
4. demonstrate the ability to communicate effectively and ethically with the principals involved in a real property transaction; and
5. interpret and apply California real estate laws to a variety of real property transactions.

BUSINESS: REAL ESTATE CORE REQUIREMENTS - COMPLETE 18.0 UNITS

Complete any combination totaling at least 18.0 units from the following:

RE 50	Real Estate Principles	3.0
RE 51	Real Estate Practice	3.0
RE 52	Real Estate Finance	3.0
RE 53	Residential Real Estate Appraisal	3.0
RE 54	Commercial Real Estate Appraisal	3.0
RE 55	Legal Aspects of Real Estate	3.0
RE 56	Real Estate Economics	3.0
RE 57	Property Management in California	3.0
RE 58	Real Estate Escrow	3.0
RE 59	Advanced Residential Appraisal	3.0

NOTES:

The educational requirements for the Broker's License will be fulfilled by completing the 18 units of core requirements plus 6 units from BAD 1, BAD 18, BBK 50, RE 58, RE 54, or RE 57.

The educational requirements for the Appraiser's License will be fulfilled by completing the 18 units of core requirements plus 6 units from the Required Electives including RE 54.

Real Estate Principles (RE 50) must be completed or in progress to apply for examination, and must be completed prior to applying for a license.

Real Estate Practice (RE 51) must be completed prior to applying for a license or within 18 months of license issuance.

BMG54 is an approved substitute for BGN81.

BUSINESS: REAL ESTATE SALES

Program of Study Code: 005075

Term Effective: Fall 2016

9.00 Units

(707) 527-4362

sherndon@santarosa.edu (mailto:sherndon@santarosa.edu)

PROGRAM REQUIREMENTS:

The Business: Real Estate Sales Skills Certificate is an academic and vocational program and provides a gateway for all students seeking a career in the real estate and related professions. The curriculum provides viewpoints and knowledge from an everyday perspective by instructors actively employed in the real estate industry.

PROGRAM STUDENT LEARNING OUTCOMES

1. Distinguish, group and justify the different forms of property estates

2. Arrange and assess equal housing opportunities.
3. Examine and integrate current economic conditions into the availability of credit.
4. Distinguish and group the approaches to real property.
5. Examine principles of supply and demand in the real estate market.

REAL ESTATE SALES REQUIREMENTS - COMPLETE 9.0 UNITS

RE 50	Real Estate Principles	3.0
RE 51	Real Estate Practice	3.0

Complete any combination totaling at least 3.0 units from the following:

RE 52	Real Estate Finance	3.0
RE 53	Residential Real Estate Appraisal	3.0
RE 54	Commercial Real Estate Appraisal	3.0
RE 55	Legal Aspects of Real Estate	3.0
RE 56	Real Estate Economics	3.0
RE 57	Property Management in California	3.0
RE 58	Real Estate Escrow	3.0
BAD 1	Financial Accounting	4.0
BAD 18	The Legal Environment of Business	3.0

CERTIFIED NURSE ASSISTANT

Program of Study Code: 005076

Term Effective: Fall 2017

6.00 Units

(707) 527-4272

tlundqvist@santarosa.edu (mailto:tlundqvist@santarosa.edu)

PROGRAM REQUIREMENTS:

The Certified Nurse Assistant Skills Certificate provides over 223 hours of lecture, skills lab, and clinical practice, and prepares students for work in skilled nursing facilities or residences. The program duration is 10 weeks, 3-4 days per week. Clinical hours are held in a skilled nursing facility. The program prepares students to take the competency examination for the Nurse Assistant certificate issued by the California State Department of Health Services.

PROGRAM STUDENT LEARNING OUTCOMES

1. Meet State of California criteria for eligibility to take CNA Certification Examinations.
2. Demonstrate knowledge, skills and abilities required for an entry-level CNA.

CERTIFIED NURSE ASSISTANT REQUIREMENTS - COMPLETE 6.0 UNITS

NRA 150A	Certified Nurse Assistant	6.0

CHILD DEVELOPMENT: ASSOCIATE TEACHER

Program of Study Code: 003144

Term Effective: Fall 2017

12.00 Units

(707) 527-4315

ygarcia2@santarosa.edu (mailto:ygarcia2@santarosa.edu)

PROGRAM REQUIREMENTS:

The Child Development: Associate Teacher Skills Certificate meets requirements for the Associate Teacher level of the Child Development Permit issued by the State of California Commission on Teacher Preparation.

PROGRAM STUDENT LEARNING OUTCOMES

1. demonstrate an understanding of the needs, characteristics, and multiple influences on the development of children.
2. describe the components of high quality care and education programs;
3. evaluate play based environments and design activities that support positive, developmentally appropriate learning outcomes for all young children;
4. identify effective guidance and interaction strategies that support all children's social learning, identity, and self-esteem;
5. describe strategies that promote constructive relationships between programs, teachers, families, and their communities; and
6. demonstrate familiarity with the ethical standards and professional behaviors that deepen understanding, knowledge, and commitment to the early childhood care and education profession.

CHILD DEVELOPMENT: ASSOCIATE TEACHER REQUIREMENTS - COMPLETE 12.0 UNITS

CHLD 51	Principles and Practices of Early Childhood Education	3.0
CHLD 90.4	Introduction to Curriculum	3.0
CHLD 90.1	Child, Family, Community Interrelationships	3.0

Complete any combination totaling at least 3.0 units from the following:

CHLD 10	Child Growth and Development	3.0
CHLD 110.1	Developmental Trends of Children Under 3	1.5
CHLD 110.2	Developmental Trends in the Child Age 3-5 Years	1.5

NOTES:

A grade of "C" or better is required for all certificate courses.

CHILD DEVELOPMENT: TEACHER

Program of Study Code: 003145

Term Effective: Fall 2017

30.00 Units

(707) 527-4315

ygarcia2@santarosa.edu (mailto:ygarcia2@santarosa.edu)

PROGRAM REQUIREMENTS:

The Child Development: Teacher Certificate of Achievement meets course requirements for the teacher level of the Child Development Permit issued by the State of California Commission on Teacher Preparation. These permits are required to work in a state-subsidized child development program.

PROGRAM STUDENT LEARNING OUTCOMES

1. Integrate an understanding of the potential, the characteristics, and the multiple influences on the development of children into the delivery of high quality care and education programs;
2. design, implement and evaluate play based environments and activities that support developmentally appropriate learning outcome for all young children;
3. apply effective guidance and interaction strategies that support all children's social learning, identity and self-esteem;
4. develop strategies that promote relationships between programs, teachers, families and their communities; and
5. demonstrate ethical standards and professional behaviors that reflect understanding, knowledge and a commitment to the field of early childhood education and care.

CHILD DEVELOPMENT: TEACHER REQUIREMENTS - COMPLETE 27.0 UNITS

CHLD 51	Principles and Practices of Early Childhood Education	3.0
CHLD 66	Early Childhood Care and Education Practicum	6.0
CHLD 68	Working With Children and Families in a Diverse Society	3.0
CHLD 90.1	Child, Family, Community Interrelationships	3.0
CHLD 90.2	Observation and Assessment of Young Children	3.0
CHLD 90.3	Health, Safety and Nutrition for the Young Child	3.0
CHLD 90.4	Introduction to Curriculum	3.0

Complete any combination totaling at least 3.0 units from the following:

CHLD 10	Child Growth and Development	3.0
CHLD 110.1	Developmental Trends of Children Under 3	1.5
CHLD 110.2	Developmental Trends in the Child Age 3-5 Years	1.5

CHILD DEVELOPMENT ELECTIVES - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

CHLD 53A	Introduction to Children with Special Needs	3.0
CHLD 53B	Supporting Children w/ Special Needs in Early Childhood Prgm	3.0
CHLD 55.2	Exploring Science and Math with Young Children	3.0
CHLD 55.5	Foundations of Language and Literacy	3.0
CHLD 55.6	Art for the Young Child	3.0
CHLD 55.7	Music and Movement for Children	3.0
CHLD 79.1	Administration of Early Childhood Education Programs	3.0
CHLD 79.2	Leadership & Personnel Skills for Early Child. Administrator	3.0
CHLD 79.4	Adult Supervision and Mentoring	2.0
CHLD 95	Developing Social Competence in the Early Childhood Years	3.0
CHLD 96	Working Through Stress and Loss With Children and Families	3.0
CHLD 111A	Group Care For Children Under Three	3.0
CHLD 150	Exploring the Natural World with Young Children	1.0
CHLD 185.1	Creative Indoor Environments for Young Children	1.0
CHLD 185.2	Creative Outdoor Environments for Young Children	1.0
CHLD 185.3	Guidance & Discipline Techniques-Preschool & Early Primary	1.0
CHLD 186	Spanish Language Arts for Young Children	3.0
CHLD 217.1	Constructive Play	1.0
CHLD 217.2	Dramatic Play and Games with Rules	1.0
CHLD 220	Effective Guidance and Discipline	2.0

NOTES:

CHLD 90.4 has a prerequisite of either CHLD 10, CHLD 110.1, or CHLD 110.2.
A grade of "C" or better is required for all certificate courses.

CHILDREN IN THE JUSTICE SYSTEM

Program of Study Code: 003149

Term Effective: Fall 2017

18.00 Units

(707) 527-4842

mgrabowski@santarosa.edu (mailto:mgrabowski@santarosa.edu)

PROGRAM REQUIREMENTS:

The Children in the Justice System Certificate of Achievement provides classes from both the Child Development department and the Administration of Justice program that target the needs of those who work with youth and children in the justice system. In order to work effectively with youthful offenders, professionals need to understand both the dynamics of child and family development and the workings of the justice system in regards to those same youth.

PROGRAM STUDENT LEARNING OUTCOMES

1. Evaluate juvenile behaviors in a developmental, cultural, and social context;
2. analyze juvenile behaviors and prepare detailed written reports suitable for use in the criminal justice system;
3. develop and apply appropriate intervention strategies for children at risk; and
4. develop and apply appropriate intervention strategies for children involved in delinquent acts.

CHILDREN IN THE JUSTICE SYSTEM CORE REQUIREMENTS - COMPLETE 18.0 UNITS

AJ 21	Introduction to Administration of Justice	3.0
AJ 53	Juvenile Procedures	3.0
AJ 71	Correctional Interviewing & Counseling	3.0
CHLD 90.1	Child, Family, Community Interrelationships	3.0

Complete any combination totaling at least 3.0 units from the following:

CHLD 10	Child Growth and Development	3.0
CHLD 110.1	Developmental Trends of Children Under 3	1.5
CHLD 110.2	Developmental Trends in the Child Age 3-5 Years	1.5

Complete any combination totaling at least 3.0 units from the following:

AJ 25	Community Relations	3.0

CHLD 68	Working With Children and Families in a Diverse Society	3.0

NOTES:

A grade of "C" or better is required for all certificate courses.
CHLD 10 and AJ 21 should be the first courses taken. Other courses can be taken in any order.

CIVIL ENGINEERING TECHNOLOGY

Program of Study Code: 003267

Term Effective: Fall 2017

22.50 Units

(707) 527-4603

rparks@santarosa.edu (mailto:rparks@santarosa.edu)

PROGRAM REQUIREMENTS:

The Civil Engineering Technology program Certificate of Achievement prepares students for variety of technical positions in the civil engineering and engineering construction professions. The program recommended course sequence is set up to allow the student to progress through four semesters and achieve an Associate's Degree or Certificate of Achievement.

PROGRAM STUDENT LEARNING OUTCOMES

1. Define and describe civil engineering terminology, methods, procedures, standards and technology;
2. perform mathematical, computer and statistical computations related to location, elevation, grade, distance, direction, area, volume and properties of civil engineering materials;
3. communicate clearly and effectively in oral, written and graphic formats;
4. prepare basic civil engineering documents and drawings using computer-aided drafting and geographic information systems technology;
5. research, file, retrieve, analyze, locate and prepare basic drawings, maps, documents, records, reports and correspondence related to civil engineering projects;
6. demonstrate basic analytical, critical thinking and decision-making skills in civil engineering, land surveying and development; and
7. describe the influence/effect civil engineering, land surveying and development has on the local, regional, national and global communities.

CIVIL ENGINEERING TECHNOLOGY AND SURVEYING TECHNOLOGY CORE REQUIREMENTS - COMPLETE 22.5 UNITS

APTECH 191	Problem Solving in Civil Engineering Technology	3.0
CEST 51	Civil Drafting Technology	3.0
CEST 63	Subdivision Planning	3.0
CEST 64		

Public Works Inspection & Testing		3.0
CEST 65	Public Works Plans and Estimating	3.0
CEST 85	CAD for Civil, Surveying & Land Development	3.0
CEST 192	Non-Technical Skills for the Civil Engineering Technician	1.5
GIS 40	Introduction to Geographic Information Systems (GIS)	3.0

NOTES:

It is recommended that students who have not had high school courses in mathematics through plane geometry take the Math placement test and enroll in an appropriate course (eg, CSKLS 371, CSKLS 372, MATH 150A & B, or MATH 151) prior to enrolling in certificate program courses.

For students with limited computer literacy, CS 101A OR CS 101B is recommended. Please contact the department or a counselor for more information.

COMPUTER STUDIES: ADOBE APPLICATIONS SPECIALIST

Program of Study Code: 003162

Term Effective: Fall 2019

15.00 Units

(707) 524-1809

dlaird@santarosa.edu (mailto:dlaird@santarosa.edu)

PROGRAM REQUIREMENTS:

The Computer Studies: Adobe Applications Specialist Certificate of Achievement provides an overview of Adobe's professional level graphics and page-layout programs, Photoshop, Illustrator, InDesign, and Acrobat. This certificate will support individuals applying for new jobs as well as those currently employed.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate proficiency in image editing skills using Photoshop;
2. demonstrate proficiency in vector skills using Illustrator;
3. demonstrate proficiency in desktop publishing skills using InDesign; and
4. use critical thinking skills to formulate, apply and integrate assets in a workflow environment for PDF, screen or web using Adobe Creative Suite software.

ADOBE APPLICATIONS SPECIALIST REQUIREMENTS - COMPLETE 15.0 UNITS

CS 70.11A	Adobe Photoshop 1	3.0
CS 71.11	Adobe Illustrator 1	3.0

CS 72.11A	Adobe InDesign 1	3.0

Complete any combination totaling at least 6.0 units from the following:

CS 70.11B	Adobe Photoshop 2	3.0
CS 72.11B	Adobe InDesign 2	4.0
CS 72.11C	Adobe InDesign 3	3.0
GD 53	Design Techniques in Illustrator	3.0

COMPUTER STUDIES: ADOBE CERTIFICATION TRAINING IN ILLUSTRATOR

Program of Study Code: 003242

Term Effective: Fall 2012

6.00 Units

(707) 527-4990

jdiamond@santarosa.edu (mailto:jdiamond@santarosa.edu)

PROGRAM REQUIREMENTS:

The Computer Studies: Adobe Certification Training in Illustrator Skills Certificate provides instruction in the vector graphic program, Illustrator. This program of study helps prepare the student for the Adobe Illustrator ACE industry exam, and will enhance the student's value in the job market. The skills are applicable to occupations involving printed and web media.

PROGRAM STUDENT LEARNING OUTCOMES

1. Create a variety of documents that exhibit the full gamut of Illustrator skills from beginning to advanced levels;
2. use critical thinking skills to formulate, apply and integrate assets in transferring Illustrator documents into print, PDF, or web environments; and
3. demonstrate knowledge necessary to complete the studies for the Adobe certified expert industry exam in Adobe Illustrator.

ADOBE CERTIFICATION TRAINING IN ILLUSTRATOR REQUIREMENTS - COMPLETE 6.0 UNITS

CS 71.11	Adobe Illustrator 1	3.0
GD 53	Design Techniques in Illustrator	3.0

COMPUTER STUDIES: ADOBE CERTIFICATION TRAINING IN INDESIGN

Program of Study Code: 003243

Term Effective: Fall 2019

7.00 Units

(707) 527-4990

jdiamond@santarosa.edu (mailto:jdiamond@santarosa.edu)

PROGRAM REQUIREMENTS:

The Computer Studies: Adobe Certification Training in InDesign Skills Certificate provides a course of study that will prepare the computer user to master skills needed to prepare desktop publishing projects using InDesign. Students will also be prepared to pass the Adobe InDesign industry certification test. Successful completion of the test will indicate a particular depth and breadth of desktop publishing skills and will enhance the recipient's value in the job market.

PROGRAM STUDENT LEARNING OUTCOMES

1. Create a variety of desktop publishing documents that exhibit the full feature set of InDesign skills from beginning to advanced levels;
2. demonstrate the knowledge necessary to complete the studies for the Adobe Certified Expert industry exam in Adobe InDesign;
3. use critical thinking skills to design a multi-document workflow environment for print;
4. use critical thinking skills to formulate, apply, and integrate assets in a workflow environment for PDF, screen or web using Adobe Creative Suite software; and
5. use current technology to develop a collaborative work environment, share files, manage developmental versions, set up review cycles and interact in real-time virtual meetings.

ADOBE CERTIFICATION TRAINING IN INDESIGN REQUIREMENTS - COMPLETE 7.0 UNITS

CS 72.11A	Adobe InDesign 1	3.0
CS 72.11B	Adobe InDesign 2	4.0

NOTES:

The certificate will be awarded upon fulfillment of the 10 units of requirements with a grade of "C" or better.

COMPUTER STUDIES: ADOBE PHOTOSHOP ENTRY LEVEL

Program of Study Code: 005082

Term Effective: Fall 2017

6.00 Units

(707) 524-1809

dlaird@santarosa.edu (mailto:dlaird@santarosa.edu)

PROGRAM REQUIREMENTS:

The Computer Studies: Adobe Photoshop Entry Level Skills Certificate provides an entry level course of study in Adobe Photoshop. This course of study helps prepare the student to take the Adobe Certified Associate (ACA) industry-standard exam in Adobe Photoshop.

PROGRAM STUDENT LEARNING OUTCOMES

1. Utilize intermediate-level features of Adobe Photoshop, including the correct usage of layer, vector, and clipping masks;
2. Create and edit complex digital images using basic through intermediate Photoshop features;
3. Use critical thinking skills to evaluate an image, develop a strategy to repair and/or enhance it, and make the appropriate adjustments;
4. Demonstrate the knowledge necessary to pass the Adobe Certified Associate exam;
5. Perform the Photoshop skills essential to an entry-level position in photography, digital art, desktop publishing, or Web page design.

COMPUTER STUDIES: ADOBE PHOTOSHOP ENTRY LEVEL - COMPLETE 6.0 UNITS

CS 70.11A	Adobe Photoshop 1	3.0
CS 70.11B	Adobe Photoshop 2	3.0

COMPUTER STUDIES: CISCO CERTIFICATION TRAINING IN CCNA

Program of Study Code: 003284

Term Effective: Fall 2015

14.00 Units

(707) 778-3960

mmckeever@santarosa.edu (mailto:mmckeever@santarosa.edu)

PROGRAM REQUIREMENTS:

The Computer Studies: Cisco Networking Certification Training in CCNA Skills Certificate is a comprehensive e-learning program, which provides students with the Internet technology skills essential in a global economy. The Networking Academy program delivers Web-based content, online assessment, student performance tracking, hands-on labs, instructor training and support, and preparation for industry-standard certifications.

PROGRAM STUDENT LEARNING OUTCOMES

1. Plan, design and install Ethernet Transmission Control Protocol/Internet Protocol (TCP/IP) Networks at the entry-level-technician;
2. analyze and improve computer network performance and security on routers and switches;
3. operate and troubleshoot Ethernet TCP/IP Networks at the entry-level-technician; and
4. demonstrate end-to-end protocol connectivity across a variety of Wide Area Network (WAN) and Local Area Network (LAN) protocol.

CISCO NETWORKING REQUIREMENTS - COMPLETE 14.0 UNITS

CS 82.21A	Network Fundamentals (Cisco Networking 1)	4.0
CS 82.21B	Routing Protocols and Concepts (Cisco Networking 2)	4.0
CS 182.21C	Scaling Networks (Cisco Networking 3)	3.0
CS 182.21D	Connecting Networks (Cisco Networking 4)	3.0

NOTES:

Recommended preparation: CS 80.11

COMPUTER STUDIES: INTRO TO DIGITAL 3D

Program of Study Code: 005081

Term Effective: Fall 2019

3.00 Units

(707) 524-1809

dlaird@santarosa.edu (mailto:dlaird@santarosa.edu)

PROGRAM REQUIREMENTS:

The Computer Studies: Intro to Digital 3D Skills Certificate provides an entry-level course of study in working in a digital 3D environment.

PROGRAM STUDENT LEARNING OUTCOMES

1. Utilize Adobe Photoshop to create and edit 3D object surface textures
2. Manipulate objects in a digital 3D environment
3. Scan and print 3D objects

COMPUTER STUDIES: INTRO TO DIGITAL 3D - COMPLETE 3.0 UNITS

CS 78.1A	Make It with 3D Printing	1.5
CS 78.1B	Design It for 3D Printing	1.5

COMPUTER STUDIES: IT SUPPORT

Program of Study Code: 005056

Term Effective: Fall 2019

16.00 Units

(707) 524-1809

dlaird@santarosa.edu (mailto:dlaird@santarosa.edu)

PROGRAM REQUIREMENTS:

The Computer Studies: IT Support Certificate of Achievement is designed to allow a student to complete a certificate program and enter the workforce as an entry level help desk technician.

PROGRAM STUDENT LEARNING OUTCOMES

1. Perform the duties of an entry level IT technician;
2. Perform basic hardware and software installations, upgrades and troubleshooting procedures for the components of desktop and laptop computers;
3. Evaluate basic troubleshooting techniques such as asking relevant questions, identifying possible solutions and planning implementation;
4. Use correct grammar, punctuation, spelling, and vocabulary as expected in business writing, formal reports, and marketing materials; and
5. Assess and recognize an audience in order to develop appropriate communications both orally and in writing that are sensitive to the audience's needs, values, and point of views.

IT SUPPORT - COMPLETE 16.0 UNITS

BGN 111	Soft Skills for Business	3.0
CS 80.15	IT Essentials 1: PC Hardware and Software	4.0
CS 84.13	Supporting Users and Troubleshooting: Desktop Applications	3.0

Complete any combination totaling at least 3.0 units from the following:

CS 80.11	Exploring Microsoft Windows	3.0
CS 81.21	Introduction to Linux	3.0

Complete any combination totaling at least 3.0 units from the following:

CS 10A	Introduction to Programming Concepts and Methodologies	4.0
CS 82.21A	Network Fundamentals (Cisco Networking 1)	4.0
CS 84.21	Management Information Systems	3.0
CS 99I	Computer Studies Occupational Work Experience Intern	8.0

NOTES:

Certificate will be awarded upon fulfillment of all course requirements with a grade 'C' or better.

CS 99I is to be taken for a minimum of **3** units.

COMPUTER STUDIES: MICROSOFT EXCEL ENTRY-LEVEL

Program of Study Code: 005094

Term Effective: Fall 2018

3.00 Units

(707) 524-1809

dlaird@santarosa.edu (mailto:dlaird@santarosa.edu)

PROGRAM REQUIREMENTS:

The Computer Studies: Microsoft Excel Entry-Level Skills Certificate provides an entry-level course of study in Microsoft Excel. This course of study helps prepare the student to take the Microsoft Office Specialist (MOS) industry-standard exam in Microsoft Excel. A person who passes the Excel MOS exam has earned a certification that validates entry-level skills in creating and editing a workbook with multiple sheets for a variety of purposes and situations. Examples include professional-looking budgets, team performance charts, sales invoices, and exercise logs. Candidate roles might include students, clerical workers, bookkeepers, instructors, and others. This certificate stacks with the Computer Studies: Microsoft Office Specialist Certificate, which builds on this certificate to add more advanced Office skills. More information about Computer Studies programs can be found at the Computer Studies Department website.

PROGRAM STUDENT LEARNING OUTCOMES

1. Create, edit, and format Excel worksheets
2. Organize multiple worksheets and workbooks
3. Use advanced Excel tools such as macros and VBA, Solver, Scenarios, PivotTables and Pivot Charts

COMPUTER STUDIES: MICROSOFT EXCEL ENTRY-LEVEL REQUIREMENTS - COMPLETE 3.0 UNITS

CS 61.11A	Microsoft Excel, Part 1	1.5
CS 61.11B	Microsoft Excel, Part 2	1.5

COMPUTER STUDIES: MICROSOFT OFFICE SPECIALIST

Program of Study Code: 003228

Term Effective: Fall 2015

13.00 Units

(707) 524-1809

dlaird@santarosa.edu (mailto:dlaird@santarosa.edu)

PROGRAM REQUIREMENTS:

The Microsoft Office Specialist Skills Certificate provides students with basic computer skills and in-depth experience with the Microsoft Office Suite programs.

PROGRAM STUDENT LEARNING OUTCOMES

1. Produce, edit, and maintain effective documents and worksheets;
2. maintain a data base, conduct queries, and create reports;
3. create effective presentations based on industry standards;
4. integrate the various applications within the Microsoft Office Suite; and
5. organize a calendar and send/receive email.

MICROSOFT OFFICE SPECIALIST CORE REQUIREMENTS - COMPLETE 13.0 UNITS

CS 60.11A	Microsoft Word, Part 1	1.5
CS 60.11B	Microsoft Word, Part 2	1.5
CS 62.11A	Microsoft PowerPoint, Part 1	1.5
CS 62.11B	Microsoft PowerPoint, Part 2	1.5
CS 167.11	Microsoft Outlook	0.5

Complete any combination totaling at least 3.0 units from the following:

CS 61.11	Microsoft Excel	3.0
CS 61.11A	Microsoft Excel, Part 1	1.5
CS 61.11B	Microsoft Excel, Part 2	1.5

Complete any combination totaling at least 3.0 units from the following:

CS 63.11	Microsoft Access	3.0
CS 63.11A	Microsoft Access, Part 1	1.5
CS 63.11B	Microsoft Access, Part 2	1.5

Complete any combination totaling at least 0.5 units from the following:

CS 65.11	Microsoft Office	3.0
CS 165.31	Microsoft Office Integration	0.5

COMPUTER STUDIES: MICROSOFT WORD ENTRY-LEVEL

Program of Study Code: 005095

Term Effective: Fall 2018

3.00 Units

(707) 524-1809

dlaird@santarosa.edu (mailto:dlaird@santarosa.edu)

PROGRAM REQUIREMENTS:

The Computer Studies: Microsoft Word Entry-Level Skills Certificate provides an entry-level course of study in Microsoft Word. This course of study helps prepare the student to take the Microsoft Office Specialist (MOS) industry-standard exam in Microsoft Word. A person who passes the Word MOS exam has earned a certification that validates entry-level skills in creating and editing word processing documents. Examples include professional-looking business documents and letters. Candidate roles might include students, clerical workers, writers,

instructors, and others. This certificate stacks with the Computer Studies: Microsoft Office Specialist Certificate, which builds on this certificate to add more advanced Office skills. More information about Computer Studies programs can be found at the Computer Studies Department website.

PROGRAM STUDENT LEARNING OUTCOMES

1. Create an array of business documents using MS Word.
2. Utilize a variety of word processing features and functions.
3. Compose documents with a quality acceptable to professional office standards.
4. Use advanced features of Microsoft Word to create long and complex documents.
5. Use advanced editing and formatting techniques.

COMPUTER STUDIES: MICROSOFT WORD ENTRY-LEVEL REQUIREMENTS - COMPLETE 3.0 UNITS

CS 60.11A	Microsoft Word, Part 1	1.5
CS 60.11B	Microsoft Word, Part 2	1.5

COMPUTER STUDIES: WEB AND MOBILE FRONT-END DEVELOPMENT

Program of Study Code: 003212

Term Effective: Fall 2019

9.00 Units

(707) 527-4990

jdiamond@santarosa.edu (mailto:jdiamond@santarosa.edu)

PROGRAM REQUIREMENTS:

The Computer Studies: Web and Mobile Front-End Developer Skills Certificate is designed to provide students with the skills needed to succeed in the field of website development. Web content developers may be employed as Website Designers/ Developers, Desktop Publishing Specialists, Desktop Publishers, or Graphic Designers. The training stresses usage of the web as a platform to deliver solutions to business problems.

PROGRAM STUDENT LEARNING OUTCOMES

1. Develop a competency in specific web development skills in the area of coding, validation and user interface;
2. apply the skills of effective communication, time management, problem solving, and client management as they plan and produce a web site; and
3. evaluate the numerous tools available to create a web site and select the appropriate tools for the specific situation.

WEB FUNDAMENTALS REQUIREMENTS - COMPLETE 9.0 UNITS

CS 50A	Web Development 1	3.0
CS 50B	Web Development 2	3.0
CS 50C	Web Development 3	3.0

CORRECTIONS

Program of Study Code: 003062

Term Effective: Summer 2011

21.00 Units

(707) 527-4842

mgrabowski@santarosa.edu (mailto:mgrabowski@santarosa.edu)

PROGRAM REQUIREMENTS:

The Corrections Certificate of Achievement prepares students to work in security, custody, discipline, and welfare of adults convicted of felonies and misdemeanors and serving terms in correctional facilities. It also prepares individuals for work as youth guidance supervisors, probation aides, counselor aides, and community service officers. Employment may be found in county, state, and federal facilities.

CORRECTIONS REQUIREMENTS - COMPLETE 21.0 UNITS

AJ 22	Concepts of Criminal Law	3.0
AJ 54A	Introduction to Evidence	3.0
AJ 53	Juvenile Procedures	3.0
AJ 55	Criminal Court Process	3.0
AJ 70	Introduction to Corrections	3.0
AJ 71	Correctional Interviewing & Counseling	3.0

Complete any combination totaling at least 3.0 units from the following:

AJ 21	Introduction to Administration of Justice	3.0
AJ 25	Community Relations	3.0

NOTES:

New students should consult the Administration of Justice program advisor.
In order to receive this certificate, all courses must be completed with a grade of C or better.
AJ 56 is recommended as the first course for students who are undecided about pursuing this certificate.

CORRECTIONS OFFICER BASIC COURSE

Program of Study Code: 005031

Term Effective: Spring 2012

5.50 Units

(707) 836-2912

achapman@santarosa.edu (mailto:achapman@santarosa.edu)

PROGRAM REQUIREMENTS:

The Corrections Officer Basic Course program is a Skills Certificate mandated by the State of California and is designed to train the officer in legal and moral issues to ensure the safe, secure and humane environment for those persons who have been legally incarcerated in a jail facility. The certification provided by this program is required by the California State Board of Corrections/ Standards and Training for Corrections. This course exceeds the minimum requirements for entry-level training of adult corrections staff as mandated by Standards & Training for Corrections. Certification is required for Corrections Officers within ninety days of hire.

PROGRAM STUDENT LEARNING OUTCOMES

1. Student will be able to identify and demonstrate major tasks and responsibilities of an adult corrections officer in detention facilities in the State of California as defined in the periodic statewide job analysis; and
2. student will identify and describe the overall mission of the adult corrections officer and its place in the California criminal justice system as established in state law.

CORRECTIONS OFFICER BASIC COURSE REQUIREMENTS - COMPLETE 5.5 UNITS

AJ 364	Corrections Officer Basic	5.5

CULINARY ARTS

Program of Study Code: 003202

Term Effective: Fall 2016

32.50 Units

(707) 521-7930

cburgett@santarosa.edu (mailto:cburgett@santarosa.edu)

PROGRAM REQUIREMENTS:

The Culinary Arts Certificate of Achievement is designed to train individuals in all aspects of the culinary arts field. Successful students will be prepared to work as cooks in a wide range of food service settings, such as restaurants, hotels, catering operations, and institutional kitchens.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate station organization, purchasing, storage, menu writing, and sanitation principles as they apply to food handling;
2. define and use the basic terminology and techniques of the culinary professional;
3. demonstrate skill and apply professional industry standards in food handling, beverage service, baking, and food service;
4. demonstrate the importance of local and seasonal products in professional cooking;

5. demonstrate responsibility and team skills for the food service industry;
6. determine and appraise career opportunities within the food industry;
7. critique, assess, and improve performance, listening add communication skills; and
8. employ the diversity of cultural influences and values related to a professional culinary environment.

CULINARY ARTS CERTIFICATE REQUIREMENTS - COMPLETE 32.5 UNITS

CUL 250	Sanitation and Safety	1.0
CUL 250.1	Culinary Arts Survey	1.0
CUL 250.2	Careers in the Food and Beverage Industry	1.0
CUL 250.3	Professional Plate Presentation	1.0
CUL 252.3	Knife Skills	2.0
CUL 252.14	Fundamentals of Garde Manger	1.5
CUL 253A	Culinary Cafe 1	6.0
CUL 253B	Culinary Cafe 2	6.0
CUL 253.6	Professional Cooking Basics	3.0
CUL 253.7	Professional Meat and Sauce Preparation	1.5
CUL 254	Introduction to Baking and Pastry	4.0
CUL 256	Front House Operations	4.5

NOTES:

A certificate will be granted upon completion of the required courses with a grade of "C" or better.

CULINARY ARTS: BAKING AND PASTRY

Program of Study Code: 003179

Term Effective: Fall 2016

20.00 Units

(707) 524-1843

skaldunski@santarosa.edu (mailto:skaldunski@santarosa.edu)

PROGRAM REQUIREMENTS:

The Culinary Arts Baking and Pastry Certificate of Achievement is an intensive program designed for those interested in professional baking. It includes comprehensive study with an emphasis on application of fundamental baking techniques and ingredients. Students learn introductory baking skills and then move on to production baking in SRJC's retail bakery at the Culinary Arts Center.

PROGRAM STUDENT LEARNING OUTCOMES

1. Define and use the basic terminology and techniques of the professional baker and pastry chef;
2. demonstrate proficiency in advanced techniques for specific baking & pastry applications;
3. demonstrate the importance of local and seasonal products in professional baking;

4. demonstrate station organization, purchasing, storage, menu writing, and sanitation principles as they apply to food handling;
5. demonstrate responsibility and team skills for the food service industry;
6. determine and appraise career opportunities within the baking industry;
7. critique, assess, and improve performance, listening and communication skills; and
8. employ the diversity of cultural influences and values related to a professional culinary environment.

CULINARY ARTS BAKING AND PASTRY REQUIREMENTS - COMPLETE 20.0 UNITS

CUL 250	Sanitation and Safety	1.0
CUL 250.1	Culinary Arts Survey	1.0
CUL 250.2	Careers in the Food and Beverage Industry	1.0
CUL 250.3	Professional Plate Presentation	1.0
CUL 252.3	Knife Skills	2.0
CUL 254	Introduction to Baking & Pastry	4.0
CUL 254.4	Purchasing and Bakeshop Management	1.0
CUL 255	Production Baking	5.0
CUL 255.1	Specialty Production Baking	4.0

NOTES:

A certificate will be granted upon completion of the required courses with a grade of "C" or better.

CULINARY ARTS: DINING ROOM SERVICE

Program of Study Code: 005009

Term Effective: Spring 2017

5.50 Units

(707) 524-1758

bfischer@santarosa.edu (mailto:bfischer@santarosa.edu)

PROGRAM REQUIREMENTS:

The Culinary Arts: Dining Room Service Skills Certificate program was created in response to the Sonoma County restaurant industry's pressing need for properly trained guest service staff. This certificate will provide short-term intensive training and equip students with the skills necessary to qualify for employment and perform with excellence on the job.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate station organization, storage, menu comprehension, and sanitation principles as they apply to food and beverage operation;
2. determine career options in dining room service;

3. exercise appropriate dining room management and customer service techniques; and
4. demonstrate the importance of local and seasonal produce in the professional food industry.

CULINARY ARTS DINING ROOM SERVICE REQUIREMENTS - COMPLETE 5.5 UNITS

CUL 250	Sanitation and Safety	1.0
CUL 256	Front House Operations	4.5

NOTES:

A certificate will be granted upon completion of the required course with a grade of "C" or better.

CULINARY ARTS: FRONT HOUSE OPERATIONS

Program of Study Code: 003209

Term Effective: Fall 2019

11.50 Units

(707) 524-1758

bfischer@santarosa.edu (mailto:bfischer@santarosa.edu)

PROGRAM REQUIREMENTS:

The Culinary Arts Front House Operations Skills Certificate is designed for individuals who are interested in learning professional dining room service skills. This 11.5-unit program prepares students for a variety of front house restaurant positions including wait staff, hosts, wine servers, and managers. Instruction is offered in table service techniques, food and beverage operations, restaurant maintenance, culinary supervision and leadership, wine appreciation, wine and food affinities, and wine service. The full time student can complete this program in one semester.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate station organization, storage, menu comprehension, and sanitation principles as they apply to food and beverage operation;
2. Determine career options in a variety of food and beverage operations;
3. Exercise appropriate front house management and customer service techniques

CULINARY ARTS FRONT HOUSE OPERATIONS REQUIREMENTS - COMPLETE 11.5 UNITS

CUL 250	Sanitation and Safety	1.0
CUL 250.1	Culinary Arts Survey	1.0
CUL 250.2	Careers in the Food and Beverage Industry	1.0
CUL 256	Front House Operations	4.5
CUL 256.3	Introduction to Food and Beverage Operations	1.0

CUL 256.5	Wine Appreciation	1.5
CUL 256.11	Wine and Food Pairing	1.5

NOTES:

A certificate will be granted upon completion of the required courses with a grade of "C" or better.

CULINARY ARTS: RESTAURANT MANAGEMENT

Program of Study Code: 003322

Term Effective: Fall 2019

19.50 Units

(707) 524-1758

bfischer@santarosa.edu (mailto:bfischer@santarosa.edu)

PROGRAM REQUIREMENTS:

The Culinary Arts: Restaurant Management Certificate of Achievement program is designed to train individuals in all aspects of restaurant management. Successful students will be prepared to work in a variety of managerial roles in restaurants, hotels, catering companies and other similar food service businesses.

PROGRAM STUDENT LEARNING OUTCOMES

1. Employ proper restaurant operations procedures to ensure compliance with safety and sanitation regulations;
2. use basic math skills to accomplish cash management, labor, and food and beverage costing;
3. develop employee professionalism in a restaurant setting;
4. implement industry-standard human resource practices conforming to federal and state wage and labor laws;
5. employ industry standards relating to service, sales, and alcoholic beverage service;
6. apply human resource principles to manage a restaurant staff; and
7. employ the diversity of cultural influences and values related to a professional culinary environment.

CULINARY ARTS: RESTAURANT MANAGEMENT REQUIREMENTS - COMPLETE 19.5 UNITS

CUL 250	Sanitation and Safety	1.0
CUL 250.1	Culinary Arts Survey	1.0
CUL 250.2	Careers in the Food and Beverage Industry	1.0
CUL 256	Front House Operations	4.5
CUL 256.5	Wine Appreciation	1.5
CUL 256.8	Beverage Management	1.0
CUL 256.9	Introduction to Wine in the Restaurant	1.0
CUL 256.10	Restaurant Operations	3.0
CUL 256.11	Wine and Food Pairing	1.5

Complete any combination totaling at least 4.0 units from the following:

BGN 81	Practical Business Math Skills	3.0
BMG 61	Skills for Managers	1.5
CUL 99I	Culinary Arts Occupational Work Experience Internship	8.0
CUL 256.3	Introduction to Food and Beverage Operations	1.0

NOTES:

If CUL 99I is selected as an elective, it should be completed for 1 unit.

DANCE: BALLET

Program of Study Code: 003233

Term Effective: Fall 2019

9.50 Units

(707) 527-4260

chillman@santarosa.edu (mailto:chillman@santarosa.edu)

PROGRAM REQUIREMENTS:

The Dance: Ballet Skills Certificate will give the student dancer an opportunity to present validation of his or her time, effort, and talent in dance. The certificate encompasses teaching, performing, and the choice of a dance style.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate proficiency in ballet dance form, in both the performance and production aspects of dance;
2. display the skills and techniques necessary for employment as instructors, choreographers, and/or performers; and
3. apply the craft and aesthetic qualities of dance orally, practically, and in writing.

DANCE CORE REQUIREMENTS - COMPLETE 9.5 UNITS

DANCE 3.1	Choreography I	2.0
DANCE 150	Teaching Dance Techniques	1.0

Complete any combination totaling at least 2.0 units from the following:

DANCE 27	Dance Production	2.0
DANCE 28	Choreography for Performance	2.0
DANCE 29	Dance Performance and Touring Company	2.0

Complete any combination totaling at least 4.5 units from the following:

DANCE 11.4	Ballet IV	1.5
DANCE 11.5	Ballet V	1.5
DANCE 11.6	Ballet VI	1.5
DANCE 13.4	Jazz Dance IV	1.5

DANCE 13.5	Jazz Dance V	1.5
DANCE 13.6	Jazz Dance VI	1.5
DANCE 14.3	Lyrical Dance III	1.5
DANCE 14.4	Lyrical Dance IV	1.5
DANCE 16.4	Modern Dance IV	1.5
DANCE 16.5	Modern Dance V	1.5
DANCE 16.6	Modern Dance VI	1.5
DANCE 21.4	Hip Hop/Funk IV	1.5
DANCE 21.5	Hip Hop/Funk V	1.5
DANCE 21.6	Hip Hop/Funk VI	1.5

BALLET EMPHASIS REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

DANCE 11.4	Ballet IV	1.5
DANCE 11.5	Ballet V	1.5
DANCE 11.6	Ballet VI	1.5

NOTES:

Please note under the Dance Core Requirements Students must take 4.5 units of elective courses outside of Certificate Emphasis, in this case any course other than Dance 11.4, Dance 11.5 and Dance 11.6.

DANCE: HIP HOP/FUNK

Program of Study Code: 003234

Term Effective: Fall 2019

12.50 Units

(707) 527-4260

chillman@santarosa.edu (mailto:chillman@santarosa.edu)

PROGRAM REQUIREMENTS:

The Dance: Hip Hop/Funk Skills Certificate will give the student dancer an opportunity to present validation of his or her time, effort, and talent in dance. The certificate encompasses teaching, performing, and the choice of a dance style.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate proficiency in hip hop/funk dance form, in both the performance and production aspects of dance;
2. display the skills and techniques necessary for employment as instructors, choreographers, and/or performer; and
3. apply the craft and aesthetic qualities of dance orally, practically, and in writing.

DANCE CORE REQUIREMENTS - COMPLETE 9.5 UNITS

DANCE 3.1	Choreography I	2.0
DANCE 150	Teaching Dance Techniques	1.0

Complete any combination totaling at least 2.0 units from the following:

DANCE 27	Dance Production	2.0
DANCE 28	Choreography for Performance	2.0
DANCE 29	Dance Performance and Touring Company	2.0

Complete any combination totaling at least 4.5 units from the following:

DANCE 11.4	Ballet IV	1.5
DANCE 11.5	Ballet V	1.5
DANCE 11.6	Ballet VI	1.5
DANCE 13.4	Jazz Dance IV	1.5
DANCE 13.5	Jazz Dance V	1.5
DANCE 13.6	Jazz Dance VI	1.5
DANCE 14.3	Lyrical Dance III	1.5
DANCE 14.4	Lyrical Dance IV	1.5
DANCE 16.4	Modern Dance IV	1.5
DANCE 16.5	Modern Dance V	1.5
DANCE 16.6	Modern Dance VI	1.5
DANCE 21.4	Hip Hop/Funk IV	1.5
DANCE 21.5	Hip Hop/Funk V	1.5
DANCE 21.6	Hip Hop/Funk VI	1.5

HIP HOP/FUNK EMPHASIS REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

DANCE 21.4	Hip Hop/Funk IV	1.5
DANCE 21.5	Hip Hop/Funk V	1.5
DANCE 21.6	Hip Hop/Funk VI	1.5

NOTES:

Please note under the Dance Core Requirements Students must take 4.5 units of elective courses outside of Certificate Emphasis, in this case any course other than Dance 21.4, Dance 21.5 and Dance 21.6.

DANCE: JAZZ

Program of Study Code: 003236

Term Effective: Fall 2019

12.50 Units

(707) 527-4260

chillman@santarosa.edu (mailto:chillman@santarosa.edu)

PROGRAM REQUIREMENTS:

The Dance: Jazz Skills Certificate will give the student dancer an opportunity to present validation of his or her time, effort, and talent in dance. The certificate encompasses teaching, performing, and the choice of a dance style.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate proficiency in jazz dance form, in both the performance and production aspects of dance;
2. display the skills and techniques necessary for employment as instructors, choreographers, and/or performers; and
3. apply the craft and aesthetic qualities of dance orally, practically, and in writing.

DANCE CORE REQUIREMENTS - COMPLETE 9.5 UNITS

DANCE 3.1	Choreography I	2.0
DANCE 150	Teaching Dance Techniques	1.0

Complete any combination totaling at least 2.0 units from the following:

DANCE 27	Dance Production	2.0
DANCE 28	Choreography for Performance	2.0
DANCE 29	Dance Performance and Touring Company	2.0

Complete any combination totaling at least 4.5 units from the following:

DANCE 11.4	Ballet IV	1.5
DANCE 11.5	Ballet V	1.5
DANCE 11.6	Ballet VI	1.5
DANCE 13.4	Jazz Dance IV	1.5
DANCE 13.5	Jazz Dance V	1.5
DANCE 13.6	Jazz Dance VI	1.5
DANCE 14.3	Lyrical Dance III	1.5
DANCE 14.4	Lyrical Dance IV	1.5
DANCE 16.4	Modern Dance IV	1.5
DANCE 16.5	Modern Dance V	1.5
DANCE 16.6	Modern Dance VI	1.5
DANCE 21.4	Hip Hop/Funk IV	1.5
DANCE 21.5	Hip Hop/Funk V	1.5
DANCE 21.6	Hip Hop/Funk VI	1.5

JAZZ EMPHASIS REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

DANCE 13.4	Jazz Dance IV	1.5
DANCE 13.5	Jazz Dance V	1.5
DANCE 13.6	Jazz Dance VI	1.5

NOTES:

Please note under the Dance Core Requirements Students must take 4.5 units of elective courses outside of Certificate Emphasis, in this case any course other than Dance 13.4, Dance 13.5 and Dance 13.6.

DANCE: MODERN DANCE

Program of Study Code: 003235

Term Effective: Fall 2019

12.50 Units

(707) 527-4260

chillman@santarosa.edu (mailto:chillman@santarosa.edu)

PROGRAM REQUIREMENTS:

The Dance: Modern Dance Skills Certificate will give the student dancer an opportunity to present validation of his or her time, effort, and talent in dance. The certificate encompasses teaching, performing, and the choice of a dance style.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate proficiency in the modern dance form, in both the performance and production aspects of dance;
2. display the skills and techniques necessary for employment as instructors, choreographers, and/or performers; and
3. apply the craft and aesthetic qualities of dance orally, practically, and in writing.

DANCE CORE REQUIREMENTS - COMPLETE 9.5 UNITS

DANCE 3.1	Choreography I	2.0
DANCE 150	Teaching Dance Techniques	1.0

Complete any combination totaling at least 2.0 units from the following:

DANCE 27	Dance Production	2.0
DANCE 28	Choreography for Performance	2.0
DANCE 29	Dance Performance and Touring Company	2.0

Complete any combination totaling at least 4.5 units from the following:

DANCE 11.4	Ballet IV	1.5
DANCE 11.5	Ballet V	1.5
DANCE 11.6	Ballet VI	1.5
DANCE 13.4	Jazz Dance IV	1.5
DANCE 13.5	Jazz Dance V	1.5
DANCE 13.6	Jazz Dance VI	1.5
DANCE 14.3	Lyrical Dance III	1.5
DANCE 14.4	Lyrical Dance IV	1.5
DANCE 16.4	Modern Dance IV	1.5
DANCE 16.5	Modern Dance V	1.5
DANCE 16.6	Modern Dance VI	1.5
DANCE 21.4	Hip Hop/Funk IV	1.5
DANCE 21.5	Hip Hop/Funk V	1.5
DANCE 21.6	Hip Hop/Funk VI	1.5

MODERN DANCE EMPHASIS REQUIREMENTS - COMPLETE 3.0 UNITS

Complete any combination totaling at least 3.0 units from the following:

DANCE 16.4	Modern Dance IV	1.5
DANCE 16.5	Modern Dance V	1.5
DANCE 16.6	Modern Dance VI	1.5

NOTES:

Please note under the Dance Core Requirements Students must take 4.5 units of elective courses outside of Certificate Emphasis, in this case any course other than Dance 16.4, Dance 16.5 and Dance 16.6.

DENTAL ASSISTING

Program of Study Code: 003176

Term Effective: Fall 2019

28.50 Units

(707) 527-4583

chatrick@santarosa.edu (mailto:chatrick@santarosa.edu)

PROGRAM REQUIREMENTS:

The Dental Assisting Certificate of Achievement is a Year-to-Career program, accredited by the Dental Board of California. The program provides a comprehensive education in the health sciences and in clinical dental assisting as preparation to enter the field. Clinical experience is arranged in various dental offices in Sonoma County. Students do not receive wages during their clinical training period.

PROGRAM STUDENT LEARNING OUTCOMES

1. Graduates of the dental assisting program will be able to make ethical decisions, and demonstrate problem solving abilities through independent and critical thinking; and
2. Graduate will be able to assist a dentist in all phases of diagnosis and treatment of patients, including restorative and cosmetic procedures, endodontic procedures, orthodontic, pediatric, and surgical procedures.

PROGRAM SELECTION PROCESS:

Please contact the Health Science Department for information about entering the program.

DENTAL ASSISTING REQUIREMENTS - COMPLETE 28.5 UNITS

DA 60	Applied Dental Science	2.0
DA 62	Introduction to Dental Procedures	3.0
DA 63	Dental Specialties	3.0
DA 64	Advanced Dental Assisting	2.0
DA 65	Dental Science	3.0
DA 66.2	Clinical Seminar	1.0
DA 66.2L	Clinical Practice	4.5
DA 67	Dental Office Management	2.0
DE 50		

Introduction to the Dental Profession		2.0
DE 51	Occupational Health and Safety	2.0
DE 55A	Introduction to Dental Radiology	2.0
DE 55B	Dental Radiology	2.0

NOTES:

The program recommends that students take CS 5 (Computer Literacy) and HLC 160 (Medical Terminology) as a prerequisite to the program courses.

Students must provide documentation of a recent health examination, immunization records, and copy of a current CPR card, including adult, child and infant. (American Heart Association or Red Cross)
All courses in the program must be completed with a "C" or better.

Applicants who have completed all three courses required by the American Dental Association PSYCH 1A, ANAT 140 or BIO 10, FDNT 10 or FDNT 62) will be given preference for acceptance over applicants who have not completed all three courses. Applicants who have completed two of the courses will be given preference over those who have completed one of the courses. All prerequisites must be successfully completed before beginning the program.

DIESEL AND HEAVY DUTY ENGINE (T1 AND T2)

Program of Study Code: 005065

Term Effective: Fall 2018

9.00 Units

(707) 522-2601

jkosten@santarosa.edu (mailto:jkosten@santarosa.edu)

PROGRAM REQUIREMENTS:

Along the way toward completing the 2-year Diesel Technology career certificate, students have the opportunity to earn Skills Certificates. The Diesel and Heavy Duty Engine (T1 and T2) Certificate trains students in theory, design, operation, troubleshoot and overhaul of internal combustion engines and prepares students to pass the T1 and T2 Automotive Service Excellence (ASE) Engine Repair Certifications Exams. Students who complete this certificate are prepared to enter the diesel trade as an apprentice level technician specializing in engine repairs.

PROGRAM STUDENT LEARNING OUTCOMES

1. Diagnose and repair a heavy duty diesel engine and modern diesel engine fuel system.

DIESEL AND HEAVY DUTY ENGINE (T1 AND T2) REQUIREMENT - COMPLETE 9.0 UNITS

DET 179	Diesel Equipment Foundation and Safety	3.0
DET 182A	Diesel Engine Overhaul	3.0

DET 182B	Diesel Engine Fuel Systems	3.0

NOTES:

In order to receive this certificate, all courses must be completed with a grade of C or better.

DIESEL CHASSIS (T4 AND T5)

Program of Study Code: 005064

Term Effective: Fall 2018

9.00 Units

(707) 522-2601

jkosten@santarosa.edu (mailto:jkosten@santarosa.edu)

PROGRAM REQUIREMENTS:

Along the way toward completing the 2-year Diesel Technology career certificate, students have the opportunity to earn Skills Certificates. The Diesel Chassis (T4 and T5) Skills Certificate trains students in theory, design, operation, troubleshoot and maintenance of heavy duty chassis, steering and brake systems and prepares students to pass the T4 and T5 Automotive Service Excellence (ASE) Brakes and Suspension and Steering Certifications Exams. Students who complete this certificate are prepared to enter the diesel trade as an apprentice level technician specializing heavy duty chassis, brakes and suspension.

PROGRAM STUDENT LEARNING OUTCOMES

1. Inspect, evaluate and repair steering, brakes, suspension and chassis electrical systems on heavy duty trucks.

DIESEL CHASSIS (T4 AND T5) REQUIREMENTS - COMPLETE 9.0 UNITS

DET 179	Diesel Equipment Foundation and Safety	3.0
DET 181	Preventive Maintenance and Inspection	3.0
DET 185	Heavy Duty Chassis and Undercarriage Systems	3.0

NOTES:

In order to receive this certificate, all courses must be completed with a grade of C or better.

DIESEL ELECTRICAL/ELECTRONICS (T6)

Program of Study Code: 005060

Term Effective: Fall 2018

7.50 Units

(707) 522-2601

jkosten@santarosa.edu (mailto:jkosten@santarosa.edu)

PROGRAM REQUIREMENTS:

Along the way toward completing the 2-year Diesel Technology career certificate, students have the opportunity to earn Skills Certificates. The Diesel Electrical/Electronics (T6) Skills Certificate trains students in theory, design, operation, troubleshooting and maintenance of heavy duty electrical and electronic systems and prepares students to pass the T6 Automotive Service Excellence (ASE) Electrical/Electronics Systems Certification Exams. Students who complete this certificate are prepared to enter the diesel trade as an apprentice level technician specializing in electrical and electronics maintenance.

PROGRAM STUDENT LEARNING OUTCOMES

1. Students will be able to diagnose and repair starting, charging, chassis electrical systems and electronic engine controls.

DIESEL ELECTRICAL/ELECTRONICS (T6) REQUIREMENT - COMPLETE 7.5 UNITS

DET 179	Diesel Equipment Foundation and Safety	3.0
DET 189	Heavy Duty Equipment Electrical Systems	3.0
IED 190	Industrial Mathematics	1.5

NOTES:

In order to receive this certificate, all courses must be completed with a grade of C or better.

DIESEL EQUIPMENT TECHNOLOGY

Program of Study Code: 003033

Term Effective: Fall 2019

31.00 Units

(707) 522-2601

jkosten@santarosa.edu (mailto:jkosten@santarosa.edu)

PROGRAM REQUIREMENTS:

The Diesel Equipment Technology Certificate of Achievement program offers both theoretical and hands-on training related to diesel equipment including diesel engines, fuel systems, electrical systems, hydraulic systems, drive trains, brake systems and suspension systems. All aspects of heavy-duty, agricultural, and transportation equipment and vehicle functions and repairs are covered. The program also prepares students to take the ASE certification exam.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate safe operation of hand tools, power tools and specialized diesel tools and equipment;
2. identify major truck, construction and agricultural equipment components;
3. diagnose major component failures and recommend repairs;
4. perform typical major component repairs; and
5. access and interpret Diesel service information and schematics both manually and on the computer.

DIESEL EQUIPMENT TECHNOLOGY CERTIFICATE REQUIREMENTS - COMPLETE 31.0 UNITS

AUTO 120	Automotive Service Advisor, Business Ethics, and Management	3.0
AUTO 126	Mobile Heating and Air Conditioning Systems	2.5
DET 179	Diesel Equipment Foundation and Safety	3.0
DET 181	Preventive Maintenance and Inspection	3.0
DET 182A	Diesel Engine Systems	3.0
DET 182B	Diesel Fuel Systems	3.0
DET 184	Mobile Hydraulic Systems	3.0
DET 185	Heavy Duty Chassis and Undercarriage Systems	3.0
DET 188	Heavy-Duty Power Train Systems	3.0
DET 189	Heavy Duty Equipment Electrical Systems	3.0
IED 190	Industrial Mathematics	1.5

NOTES:

DET 179 and DET 181 are beginning courses, one of which should be taken prior to or concurrently with other DET core classes.

DIESEL HEATING, VENTILATION AND COOLING (T7)

Program of Study Code: 005061

Term Effective: Fall 2019

7.00 Units

(707) 522-2601

jkosten@santarosa.edu (mailto:jkosten@santarosa.edu)

PROGRAM REQUIREMENTS:

Along the way toward completing the 2-year Diesel Technology career certificate, students have the opportunity to earn Skills Certificates. The Diesel Heating, Ventilation and Cooling (T7) Certificate trains students in theory, service and repair of many types of heavy duty air conditioning, cooling and heating systems. The certificate prepares students to pass the T7 ASE (Automotive Service Excellence) certification exam. Students who complete this certificate are prepared for entry-level jobs troubleshooting and repairing heavy duty heating and cooling systems in Diesel dealerships and fleet maintenance shops.

PROGRAM STUDENT LEARNING OUTCOMES

1. Students will be able to diagnose and repair mobile heating and air conditioning systems.

DIESEL HEATING, VENTILATION AND COOLING (T7) REQUIREMENTS - COMPLETE 7.0 UNITS

DET 179	Diesel Shop Practices	3.0
AUTO 126	Mobile Heating and Air Conditioning Systems	2.5
IED 190	Industrial Mathematics	1.5

NOTES:

In order to receive this certificate, all courses must be completed with a grade of C or better.

DIESEL POWER TRAIN (T3)

Program of Study Code: 005063

Term Effective: Fall 2018

9.00 Units

(707) 522-2601

jkosten@santarosa.edu (mailto:jkosten@santarosa.edu)

PROGRAM REQUIREMENTS:

The Diesel Power Train (T3) Skills Certificate trains students in theory, design, operation, troubleshoot and maintenance of heavy duty power train and prepares students to pass the T3 Drive Train Automotive Service Excellence (ASE) Certifications Exams. Students who complete this certificate are prepared to enter the diesel trade as an apprentice level technician specializing in power train maintenance.

PROGRAM STUDENT LEARNING OUTCOMES

1. Inspect, evaluate and repair heavy duty drive train components, including clutches, transmissions, drive lines and rear axle assemblies using appropriate shop skills.

DIESEL POWER TRAIN (T3) REQUIREMENTS - COMPLETE 9.0 UNITS

DET 179	Diesel Shop Practices	3.0
DET 184	Mobile Hydraulic Systems	3.0
DET 188	Heavy-Duty Power Train Systems	3.0

NOTES:

In order to receive this certificate, all courses must be completed with a grade of C or better.

DIESEL PREVENTATIVE MAINTENANCE (T8)

Program of Study Code: 005062

Term Effective: Fall 2018

7.50 Units

(707) 522-2601

jkosten@santarosa.edu (mailto:jkosten@santarosa.edu)

PROGRAM REQUIREMENTS:

Along the way toward completing the 2-year Diesel Technology career certificate, students have the opportunity to earn Skills Certificates. The Diesel Preventative Maintenance (T8) Skills Certificate trains students in theory, design, operation, troubleshoot and maintenance of heavy duty trucks and equipment and prepares students to pass the T8 Automotive Service Excellence (ASE) Preventative Maintenance Certifications Exam. Students who complete this certificate are prepared to enter the diesel trade as an apprentice level technician specializing heavy duty truck and equipment maintenance.

PROGRAM STUDENT LEARNING OUTCOMES

1. Perform maintenance inspections on trucks and agricultural construction equipment; and
2. evaluate equipment condition and determine remedies using appropriate shop skills.

DIESEL PREVENTATIVE MAINTENANCE (T8) REQUIREMENTS - COMPLETE 7.5 UNITS

DET 179	Diesel Shop Practices	3.0
DET 181	Preventive Maintenance and Inspection	3.0
IED 190	Industrial Mathematics	1.5

NOTES:

In order to receive this certificate, all courses must be completed with a grade of C or better.

DIETARY MANAGER

Program of Study Code: 003022

Term Effective: Fall 2018

17.00 Units

(707) 521-6947

jharrison@santarosa.edu (mailto:jharrison@santarosa.edu)

PROGRAM REQUIREMENTS:

The Dietary Manager Certificate of Achievement prepares individuals to manage an efficient, safe and healthful food service program. Students acquire skills for supervising both food production and personnel in health care and other food service institutions.

PROGRAM STUDENT LEARNING OUTCOMES

1. Communicate clearly and professionally as a Dietary Manager;
2. interview clients to obtain relevant nutrition information, and follow diet orders to provide nutritious meals for a variety of clients and medical conditions;
3. manage cost control, purchasing, inventory, meal production, employee scheduling and supervision of foodservice workers for safe and sanitary commercial food production; and
4. use leadership skills to motivate foodservice employees to work as a team in an efficient and effective manner that meets or exceeds client expectations.

DIETARY SERVICE SUPERVISOR REQUIREMENTS - COMPLETE 17.0 UNITS

DIET 50	Sanitation & Safety	2.0
DIET 52	Management Training Techniques	3.0
DIET 55	Food Production Management	2.0
DIET 55L	Food Production Clinical Experience	2.0
DIET 57	Modified Diets	3.0
FDNT 10	Elementary Nutrition	3.0

Complete any combination totaling at least 1.0 unit from the following:

DIET 70	Introduction to Nutrition, Dietetics and Food Service	1.0
FDNT 70	Introduction to Nutrition, Dietetics and Food Service	1.0

Complete any combination totaling at least 1.0 unit from the following:

DIET 99I	Dietetic Technology Occupational Work Experience Internship	8.0
DIET 106.1	Supervised Field Experience for Dietetic Technician 1	4.5
DIET 106.2	Supervised Field Experience for Dietetic Technician 2	4.5

NOTES:

Students must complete FDNT 10 before enrolling in DIET 57.
A certificate will be granted upon completion of the required courses with a grade of "C" or better.

DIGITAL MEDIA: 3D MODELING AND ANIMATION

Program of Study Code: 003329

Term Effective: Fall 2019

28.00 Units

(707) 527-4603

mstarkey@santarosa.edu (mailto:mstarkey@santarosa.edu)

PROGRAM REQUIREMENTS:

The Digital Media: 3D Modeling and Animation Certificate of Achievement provides fundamental skills for entry into a wide range of industries, including entertainment, architecture, electronic gaming, advertising, and educational media, as well as forensics and medical animation, and 3D simulations. This program also prepares students for advanced animation education through degree granting institutions and schools specializing in the film and broadcast fields. Students will explore the principles of three-dimensional (3D) modeling, texturing, lighting and animating, as well as the application of particle systems and dynamics to produce a range of effects. Emphasis is placed on modeling, rigging and animating 3D characters, and upon creating sophisticated 3D scenes. Upon completion, students will have a comprehensive understanding of the basic practices of designing, building and animating 3D environments, characters, and visual effects.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply the basic practices of designing, building, and animating 3D environments, characters, and visual effects; and
2. Produce 3D animations consistent with industry requirements for entry level animators.

DIGITAL MEDIA: 3D MODELING & ANIMATION CORE REQUIREMENTS - COMPLETE 28.0 UNITS

APTECH 43	Computer Modeling and Animation with 3D Studio Max	3.0
APTECH 162	3D Animation: Visual Effects and Compositing	2.0
APTECH 63	3D Animation: Modeling and Rigging	4.0
APTECH 64	3D Animation: Character Animation	4.0
APTECH 65	Advanced 3D Animation Workshop	4.0
APTECH 168	3D Animation: Introduction to Virtual Reality	2.0
ART 7A	Drawing and Composition 1	3.0
CS 74.11	Introduction to Digital Media	3.0

Complete any combination totaling at least 3.0 units from the following:

APTECH 46	Introduction to Computer-Aided Drafting	2.0
ART 5	Three Dimensional Design	3.0
ART 69		

Introduction to Cartooning and Sequential Art		3.0
CS 70.11A	Adobe Photoshop 1	3.0
CS 74.21A	Digital Video Post-Production Techniques 1	1.5
CS 74.21B	Digital Video Post-Production Techniques 2	1.5
CS 74.41	Game Design	4.0
CS 74.42	Introduction to Game Coding	4.0
CS 78.1	3D Printing	3.0
MEDIA 20	Introduction to Digital Filmmaking	4.0
MEDIA 22	Screenwriting	3.0
THAR 10A	Introduction to Acting	3.0
THAR 10B	Scene Study and Characterization	3.0

DIGITAL MEDIA: AUDIO

Program of Study Code: 003326

Term Effective: Fall 2013

25.00 Units

(707) 527-4790

rbudginas@santarosa.edu (mailto:rbudginas@santarosa.edu)

PROGRAM REQUIREMENTS:

The purpose of the Digital Media: Audio Certificate of Achievement, (formerly Audio Production for Digital Media), is to provide students with an overview of MIDI sequencing, sound synthesis, audio recording, digital and analog audio technology, basic music theory, sound design for multimedia applications including video games (for educational and/or entertainment purposes), and delivery of audio content over radio, television, and the Internet. Graduates are prepared for entry-level positions in professional audio production including audio engineering, sound design, audio-for-video post-production, broadcasting, and CD/DVD mastering.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate technical proficiency with a Digital Audio Workstation (DAW);
2. create digital audio recordings and master them for distribution; and
3. design audio for video, computer games, and other multimedia applications.

DIGITAL MEDIA: AUDIO REQUIREMENTS - COMPLETE 25.0 UNITS

CS 74.11	Introduction to Digital Media	3.0
MUSC 50	Introduction to MIDI	3.0
MUSC 51A	Digital Audio: Fundamentals	3.0
MUSC 51B	Digital Audio: Multimedia	3.0

MUSC 60A	Audio Recording 1	3.0
MUSC 60B	Audio Recording 2	3.0
CS 50.32	Web / Interactive Media Projects	4.0

Complete any combination totaling at least 3.0 units from the following:

MUSC 1	Music Fundamentals	3.0
MUSC 2A	Introduction to Music Theory	3.0
MUSCP 11A	Class Piano 1	2.0

DIGITAL MEDIA: DIGITAL FILMMAKING

Program of Study Code: 003330

Term Effective: Fall 2019

31.00 Units

(707) 522-2709

bantonson@santarosa.edu (mailto:bantonson@santarosa.edu)

PROGRAM REQUIREMENTS:

The Digital Filmmaking Certificate of Achievement is designed to provide students with a foundation in film history and film form as well as in field production and postproduction techniques for digital filmmaking. The program will prepare students for broadcast and commercials, digital photography, documentary/biography production, legal and forensic video production, duplication and transfer, DVD authoring/mastering, videos for websites, online advertisements, public service announcements, industrial and corporate training videos, live internet streaming, live seminar capture, music videos, post production/editing, sports/performance events, media tech work on live events (including video production troubleshooting), and we video production/encoding.

PROGRAM STUDENT LEARNING OUTCOMES

1. Produce a professional quality video project using industry standard non-linear editing software and audio editing software; and
2. use DVD authoring software to create a project with multiple menus and special features for playback on the Web or DVD.

DIGITAL MEDIA: DIGITAL FILMMAKING CORE REQUIREMENTS - COMPLETE 31.0 UNITS

CS 50.32	Web / Interactive Media Projects	4.0
CS 74.11	Introduction to Digital Media	3.0
CS 74.21A	Digital Video Post Production Techniques 1	1.5
CS 74.21B	Digital Video Post Production Techniques 2	1.5
JOUR 55	Multimedia Reporting	3.0
MEDIA 10	Film Appreciation	4.0

MEDIA 19	Multi-Camera Studio Production	4.0
MEDIA 20	Introduction to Digital Filmmaking	4.0

Complete any combination totaling at least 6.0 units from the following:

APTECH 63	3D Animation: Modeling and Rigging	4.0
APTECH 64	3D Animation: Visual Effects, Character Anim. & Compositing	4.0
ART 82	Beginning Digital Photography	3.0
CS 70.11B	Adobe Photoshop 2	3.0
CS 74.21C	Digital Video Post-Production Techniques 3	3.0
MEDIA 21	Intermediate Digital Filmmaking	4.0
MEDIA 22	Screenwriting	3.0
MEDIA 123	Intermediate Screenwriting	3.0
THAR 63	Acting in Film, Television and Voice-over	3.0

DIGITAL MEDIA: GAME DEVELOPMENT

Program of Study Code: 003353

Term Effective: Fall 2019

17.00 Units

(707) 527-4855

ewilde@santarosa.edu (mailto:ewilde@santarosa.edu)

PROGRAM REQUIREMENTS:

The Computer Studies: Game Development certificate of achievement provides a course of study that prepares students to design and program interactive computer games. This pathway leads to entrepreneurial opportunities for a self-made career in the video game industry. The Computer Studies: Game Development certificate focuses on the history of games, gameplay design, and game design and coding.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply systems-level thinking and abstraction in the context of interactive computational media.
2. Recognize and understand the social, legal, ethical, and cultural issues in the discipline of computer games.
3. Demonstrate knowledge of visual interaction design and artistic practices in domains involving playful interactions.
4. Demonstrate written and oral communication skills regarding technical and analytical consideration of computer games.
5. Design a technical system that achieves creative goals for audience experience in computational media.

6. Demonstrate the ability to collaboratively plan, organize, and execute complex, team-oriented projects, using appropriate communication and coordination techniques.

DIGITAL MEDIA: GAME DEVELOPMENT REQUIREMENTS - COMPLETE 17.0 UNITS

CS 74.40	History of Games	3.0
CS 74.41	Game Design	4.0
CS 74.42	Introduction to Game Coding	4.0
GD 90	Designing the User Experience	3.0

Complete any combination totaling at least 3.0 units from the following:

APTECH 43	Computer Modeling and Animation with 3D Studio Max	3.0
CS 10A	Introduction to Programming Concepts and Methodologies	4.0
CS 50A	Web Development 1	3.0
CS 74.11	Introduction to Digital Media	3.0
GD 51	Introduction to Graphic Design	3.0

DIGITAL MEDIA: WEB AND MULTIMEDIA

Program of Study Code: 003320

Term Effective: Fall 2019

19.00 Units

(707) 527-4990

jdiamond@santarosa.edu (mailto:jdiamond@santarosa.edu)

PROGRAM REQUIREMENTS:

The Digital Media: Web and Multimedia Certificate of Achievement provides students with the knowledge and skills to generate and manipulate graphics, animations, sound, text and video into consolidated and seamless website and multimedia presentations.

PROGRAM STUDENT LEARNING OUTCOMES

1. Complete professional projects, products, and other assignments using industry-standard web and multimedia applications.
2. Demonstrate analytical, critical thinking and decision-making skills as they apply to web and multimedia design.
3. Understand, apply, and integrate knowledge of the principles and standards of web and digital media design and demonstrate this in professional projects and assignments that rely on best design practices, software, programming and markup language expertise

WEB DEVELOPMENT CORE REQUIREMENTS - COMPLETE 9.0 UNITS

CS 50A	Web Development 1	3.0
CS 50B	Web Development 2	3.0

CS 50C	Web Development 3	3.0

WEB AND MULTIMEDIA EMPHASIS REQUIREMENTS - COMPLETE 10.0 UNITS

CS 50.32	Web and Digital Media Projects	4.0
CS 70.11A	Adobe Photoshop 1	3.0

Complete any combination totaling at least 3.0 units from the following:

CS 74.11	Introduction to Digital Media	3.0
CS 74.21A	Digital Video Post-Production Techniques 1	1.5
CS 74.21B	Digital Video Post-Production Techniques 2	1.5

DRONE STUDIES: COMMERCIAL DRONE CERTIFICATION

Program of Study Code: 005117

Term Effective: Fall 2019

3.00 Units

(707) 524-1809

dlaird@santarosa.edu (mailto:dlaird@santarosa.edu)

PROGRAM REQUIREMENTS:

The Drone Studies: Commercial Drone Certification Skills Certificate teaches students what they need to know in order to become a commercial drone pilot. Topics include: drone flying techniques, drone safety, drone technology, privacy and ethical regulations, and topics included on the Federal Aviation Administration (FAA) Remove Pilot exam.

PROGRAM STUDENT LEARNING OUTCOMES

1. Safely operate common Unmanned Aerial Systems (UAS) (drones).
2. Capture still and video images from a UAS.
3. Prepare to take the Federal Aviation Administration (FAA) UAS commercial pilot license exam.
4. Understand the varied uses of unmanned vehicles in multiple disciplines and careers.

DRONE STUDIES: COMMERCIAL DRONE CERTIFICATION - COMPLETE 3.0 UNITS

CS 76.11	Drone Piloting and Imaging	3.0

ELECTRONIC TECHNOLOGY FUNDAMENTALS

Program of Study Code: 005096

Term Effective: Fall 2018

6.00 Units

(707) 527-4915

mpapa@santarosa.edu (mailto:mpapa@santarosa.edu)

PROGRAM REQUIREMENTS:

The Electronic Technology Fundamentals Skills Certificate offers students the basic foundation to perform the work of an electronic technician in both traditional engineering environments and service related environments. Electronic technicians lay out, build, test and modify electronic components, equipment, and systems such as computers, test equipment, and machine tool numerical controls, using principles of electronics, electrical circuitry, engineering, mathematics, and physics. An electronic technician often works under the direction of engineering staff. Non-traditional areas include such things as biomedical instrument repairs, alternative energy installation and repair,field service, and installations.Our courses prepare students to succeed in applying the fundamental principles and practices of electronic technology to a variety of job settings.

PROGRAM STUDENT LEARNING OUTCOMES

1. Perform measurements of voltage, current and resistance using laboratory test equipment;
2. apply the principles of Direct and Alternating Current theory to electronic circuits;
3. apply the Scientific Method to the investigation and evaluation of electronic circuits, and summarize the results in written technical format;
4. analyze and test solid state devices and circuits;
5. identify, analyze, and test Operational Amplifier circuits; and
6. test, align, and troubleshoot various complex electronic circuits.

ELECTRONIC TECHNOLOGY FUNDAMENTALS REQUIREMENTS - COMPLETE 8.0 UNITS

ELEC 54A	Direct and Alternating Current Theory	3.0
ELEC 54B	Fundamentals of Electronic Devices	3.0
ELEC 64A	Electronic Construction 1	2.0

EMERGENCY CARE FOR FIRST RESPONDERS

Program of Study Code: 005046

Term Effective: Spring 1992

2.00 Units

(707) 836-2920

jsnow@santarosa.edu (mailto:jsnow@santarosa.edu)

PROGRAM REQUIREMENTS:

The Emergency Care for First Responders Skills Certificate teaches students manipulative and problem solving skills required for the individual interested in pursuing a career as an emergency medical responder to victims of illness or injury.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify a medical or trauma emergency;
2. apply knowledge of specific skills to assist victims of a medical or trauma emergency; and
3. discuss the requirements necessary to work in the Emergency Medical Service system.

EMERGENCY CARE FOR FIRST RESPONDERS REQUIREMENTS - COMPLETE 2.0 UNITS

EMC 100	Emergency Care for First Responders	2.0

EMERGENCY MEDICAL TECHNICIAN (EMT-1) REFRESHER

Program of Study Code: 005019

Term Effective: Fall 2014

1.50 Units

(707) 836-2921

tfrazier@santarosa.edu (mailto:tfrazier@santarosa.edu)

PROGRAM REQUIREMENTS:

The Emergency Medical Technician (EMT-1) Refresher Skills Certificate provides updated skills for individuals holding the EMT-1 certificate, in compliance with the requirements outlined by the State of California Administrative Code. Every two years, all certified EMT's are required to complete a refresher program course to maintain their certification.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify changes and updates that apply to maintaining California Certification as an Emergency Medical Technician.

EMERGENCY MEDICAL TECHNICIAN (EMT-1) REFRESHER COURSE REQUIREMENTS - COMPLETE 1.0 UNIT

EMC 104.1	Emergency Medical Technician Refresher	1.0

EMERGENCY MEDICAL TECHNICIAN (EMT-BASIC)

Program of Study Code: 005018

Term Effective: Fall 2019

7.50 Units

(707) 836-2921

tfrazier@santarosa.edu (mailto:tfrazier@santarosa.edu)

PROGRAM REQUIREMENTS:

The Emergency Medical Technician (EMTBasic) Skills Certificate provides technical and practical knowledge and skills to meet the requirements of the California Administrative Code to gain certification as an Emergency Medical Technician Basic by the California State Emergency Medical Services Authority.

PROGRAM STUDENT LEARNING OUTCOMES

1. Complete the National Registry written exam;
2. complete the National Registry Skills Exam; and
3. demonstrate professional behavior consistent with criteria for employment as a certified Emergency Medical Technician-Basic.

EMERGENCY MEDICAL TECHNICIAN (EMT-BASIC) PREREQUISITE - COMPLETE 2.0 UNITS

EMC 100	Emergency Care for First Responders	2.0

EMERGENCY MEDICAL TECHNICIAN (EMT-BASIC) REQUIREMENTS - COMPLETE 5.5 UNITS

EMC 103	Emergency Medical Technician	5.5

NOTES:

A current certification in CPR for the Health Provider is required prior to beginning the program.
Emergency room experience (8 hours) and ambulance experience (16 hours) are a required component of EMC 103. Prior arrangements for this experience will be made as part of class curriculum. Students will also be required to attend assigned weekend activities as scheduled.

ENVIRONMENTAL HORTICULTURE: LANDSCAPE CONSTRUCTION AND MAINTENANCE

Program of Study Code: 003134

Term Effective: Fall 2018

22.00 Units

(707) 527-4409

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Environmental Horticulture: Landscape Construction and Maintenance Certificate of Achievement program deals with all aspects of plant use and site enhancements in the landscape. This is the most advanced level certificate in the Landscaping program.

PROGRAM STUDENT LEARNING OUTCOMES

1. Create a materials takeoff for hardscape features;
2. develop the skills to perform landscape contractor construction skills;
3. demonstrate proper landscape plant maintenance practices;
4. develop proper water efficient practices in the landscape; and
5. assess plants for landscape purposes.

ENVIRONMENTAL HORTICULTURE: LANDSCAPE CONSTRUCTION AND MAINTENANCE REQUIREMENTS - COMPLETE 22.0 UNITS

HORT 8	Plant Materials: Summer/Fall	3.0
HORT 12	Plant Materials: Winter/Spring	3.0
HORT 51	Introduction to Horticulture	3.0
HORT 80	Landscape Practices	3.0
HORT 91	Landscape Construction/Estimation	3.0
HORT 144	Landscape Irrigation	3.0

Complete any combination totaling at least 1.0 unit from the following:

AGRI 98	Independent Study in Agriculture	3.0
AGRI 99I	Agriculture Occupational Work Experience Internship	8.0

Complete any combination totaling at least 3.0 units from the following:

AGBUS 2	Agricultural Computer Applications	3.0
AGBUS 56	Introduction to Agriculture Business and Management	3.0
AGBUS 61	Agricultural Marketing	3.0
AGBUS 62	Agricultural Sales and Communication	3.0
AGRI 60	Soil & Plant Nutrition	3.0
HORT 70	Plant Propagation	3.0
HORT 71	Nursery Production	3.0
HORT 93	Landscape Drafting and Design	3.0

NOTES:

Only one unit of AGRI 98 Independent Study or AGRI 99I Work Experience/Internship is required, but students may elect to take additional units.

ENVIRONMENTAL HORTICULTURE: LANDSCAPE DESIGN

Program of Study Code: 003257

Term Effective: Fall 2018

25.00 Units

(707) 527-4409

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Environmental Horticulture: Landscape Design Certificate of Achievement program prepares students for occupations within the landscape industry that require garden design skills. The certificate program emphasizes hands-on learning, and most courses incorporate lab activities that apply knowledge and skills in realistic settings.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply proper landscape principles to an appropriate site;
2. apply color media to the graphic presentation of a landscape plan; and
3. prepare perspective drawings of a design.

ENVIRONMENTAL HORTICULTURE: LANDSCAPE DESIGN - COMPLETE 25.0 UNITS

HORT 8	Plant Materials: Summer/Fall	3.0
HORT 12	Plant Materials: Winter/Spring	3.0
HORT 51	Introduction to Horticulture	3.0
HORT 91	Landscape Construction/Estimation	3.0
HORT 93	Landscape Drafting and Design	3.0
HORT 144	Landscape Irrigation	3.0
HORT 195	CAD: Landscape Site Plans	3.0

Complete any combination totaling at least 1.0 unit from the following:

AGRI 98	Independent Study in Agriculture	3.0
AGRI 99I	Agriculture Occupational Work Experience Internship	8.0

Complete any combination totaling at least 3.0 units from the following:

AGBUS 2	Agricultural Computer Applications	3.0
AGBUS 56	Introduction to Agriculture Business and Management	3.0
AGBUS 61	Agricultural Marketing	3.0
AGBUS 62	Agricultural Sales and Communication	3.0
HORT 70	Plant Propagation	3.0

HORT 71	Nursery Production	3.0
HORT 80	Landscape Practices	3.0
HORT 184	Introduction to Arboriculture	3.0

NOTES:

Only one unit of AGRI 98 Independent Study or AGRI 99I Work Experience/Internship is required, but students may elect to take additional units.

ENVIRONMENTAL HORTICULTURE: NURSERY MANAGEMENT

Program of Study Code: 003255

Term Effective: Fall 2018

25.00 Units

(707) 527-4409

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Environmental Horticulture: Nursery Management Certificate of Achievement program prepares students to advance to management positions in nurseries that propagate, grow and market plants for use in the home, business or the landscape. The program provides a solid foundation in plant knowledge and nursery and garden center environments, as well as computer applications and management skills.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate proper plant propagation techniques;
2. define proper greenhouse environment required for propagation;
3. compare and contrast container vs field production systems,
4. apply appropriate behavior and workplace policies; and
5. organize an effective product display.

ENVIRONMENTAL HORTICULTURE: NURSERY REQUIREMENTS - COMPLETE 25.0 UNITS

AGRI 70	Integrated Pest Management	3.0
HORT 8	Plant Materials: Summer/Fall	3.0
HORT 12	Plant Materials: Winter/Spring	3.0
HORT 51	Introduction to Horticulture	3.0
HORT 70	Plant Propagation	3.0
HORT 71	Nursery Production	3.0
HORT 144	Landscape Irrigation	3.0

Complete any combination totaling at least 1.0 unit from the following:

AGRI 98	Independent Study in Agriculture	3.0
AGRI 99I		

Agriculture Occupational Work Experience Internship		8.0

Complete any combination totaling at least 3.0 units from the following:

AGBUS 2	Agricultural Computer Applications	3.0
AGBUS 56	Introduction to Agriculture Business and Management	3.0
AGBUS 61	Agricultural Marketing	3.0
AGBUS 62	Agricultural Sales and Communication	3.0
HORT 72	Greenhouse Production	3.0
HORT 80	Landscape Practices	3.0
HORT 91	Landscape Construction/Estimation	3.0
HORT 93	Landscape Drafting and Design	3.0

NOTES:

Only one unit of AGRI 98 Independent Study or AGRI 99I Work Experience/Internship is required, but students may elect to take additional units.

ESL CREDIT: ADVANCED ESL FOR ACADEMICS AND CAREERS

Program of Study Code: 003342

Term Effective: Fall 2018

14.50 Units

(707) 522-2766

cgray@santarosa.edu (mailto:cgray@santarosa.edu)

PROGRAM REQUIREMENTS:

Students who complete the Advanced ESL for Academics and Careers Certificate of Achievement will be prepared to meet the English language demands for a variety of occupations and for further academic study, including entry into college-level academic courses.

PROGRAM STUDENT LEARNING OUTCOMES

1. Produce writings that demonstrate organization and content, critical thinking, vocabulary and fluency, and grammatical accuracy for a variety of audiences and purposes.
2. Comprehend reading passages in a range of contexts by identifying organizational strategies, main ideas, and details as well as paraphrasing and summarizing.
3. Word-process writings of various types and access information on the Internet.
4. Demonstrate content knowledge of the vocation(s) introduced in chosen electives.

ADVANCED ESL FOR ACADEMICS AND CAREERS - COMPLETE 14.5 UNITS

ESL 373CP	ESL Advanced Conversation/Pronunciation	3.0

Complete any combination totaling at least 9.0 units from the following:

ESL 373	Advanced Academic Reading and Writing for ESL Students	9.0
ESL 373A	Advanced Academic Reading and Writing for ESL Students Part1	4.5

And

ESL 373B	Advanced Academic Reading and Writing for ESL Students Part2	4.5

Complete any combination totaling at least 2.5 units from the following:

BGN 110	Exploring Business Careers	1.0
COUN 162.1	Career Assessment and Research	1.0
ESL 332	ESL for Desktop Applications	1.5
ESL 334	ESL for the Health Sciences	3.0
ESL 335	Vocational English as a Second Language for Culinary Arts	3.0
ESL 353	Practical ESL for Early Childhood Professionals	3.0

ESL CREDIT: INTERMEDIATE ESL FOR ACADEMICS AND CAREERS

Program of Study Code: 003341

Term Effective: Fall 2017

22.50 Units

(707) 522-2766

cgray@santarosa.edu (mailto:cgray@santarosa.edu)

PROGRAM REQUIREMENTS:

Students who complete the Intermediate ESL for Academics and Careers Certificate of Achievement will be prepared to meet the English language demands for a variety of occupations and for further academic study, including entry into college-level academic courses.

PROGRAM STUDENT LEARNING OUTCOMES

1. Produce writings that demonstrate organization and content, critical thinking, vocabulary and fluency, and grammatical accuracy for a variety of audiences and purposes.
2. Comprehend reading passages in a range of contexts by identifying organizational strategies, main ideas, and details as well as paraphrasing and summarizing.
3. Word-process writings of various types and access information on the Internet.
4. Demonstrate content knowledge of the vocation(s) introduced in chosen electives.

INTERMEDIATE ESL FOR ACADEMICS AND CAREERS - COMPLETE 22.5 UNITS

Complete any combination totaling at least 9.0 units from the following:

ESL 371	Intermediate Reading/Writing/Grammar for ESL Students	9.0
ESL 371A	Intermediate Reading/Writing/Grammar for ESL Students Part 1	4.5
And		
ESL 371B	Intermediate Reading/Writing/Grammar for ESL Students Part 2	4.5

Complete any combination totaling at least 9.0 units from the following:

ESL 372	High-Intermediate Reading/Writing/Grammar for ESL Students	9.0
ESL 372A	High-Intermediate Reading/Writing/Grammar for ESL Part 1	4.5
And		
ESL 372B	High-Intermediate Reading/Writing/Grammar for ESL Part 2	4.5

Complete any combination totaling at least 3.0 units from the following:

ESL 371CP	ESL Intermediate Conversation/Pronunciation	3.0
ESL 372CP	ESL High-Intermediate Conversation/Pronunciation	3.0

Complete any combination totaling at least 1.5 units from the following:

ESL 332	ESL for Desktop Applications	1.5
ESL 335	Vocational English as a Second Language for Culinary Arts	3.0
ESL 353	Practical ESL for Early Childhood Professionals	3.0

ESL: ACADEMIC PREPAREDNESS AND CAREER DEVELOPMENT

Program of Study Code: 005067

Term Effective: Fall 2017

0.00 Units

(707) 521-6935

ybedolla@santarosa.edu (mailto:ybedolla@santarosa.edu)

PROGRAM REQUIREMENTS:

The Certificate of Completion in Academic Preparedness and Career Development prepares high intermediate level ESL students with the English language and literacy skills needed to function independently in most vocational and academic situations. The certificate focuses on developing the requisite level of reading, writing and speaking skills needed to matriculate to credit level ESL courses.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate listening, speaking and reading skills needed to clearly communicate and understand information and ideas in personal, academic and vocational settings;
2. write more extensive notes and short reports or compositions; and
3. successfully adapt to new cultural settings at work, school and the community and demonstrate cross-cultural skills in multi-cultural settings.

ACADEMIC PREPAREDNESS AND CAREER DEVELOPMENT - COMPLETE 0.0 UNITS

Complete 1 - 2 courses from below

ESL 716	Intermediate High Non-Credit English as a Second Language	0.0
And		
ESL 716RW	Intermediate Non-Credit ESL Reading/Writing	0.0
or		
OR		
ESL 781	Transitional Reading/Writing/Grammar for NC ESL Students	0.0
or		
OR		
ESL 781A	Low Interm Read/Writ/Gramm for Transitional NC ESL Pt 1	0.0
And		
ESL 781B	Low Interm Read/Writ/Gramm for Transitional NC ESL Pt 2	0.0

Complete 1 course from below

ESL 716CP	Intermediate Non-Credit ESL Conversation/Pronunciation	0.0
ESL 722	ESL Computer Literacy	0.0
ESL 732	ESL for Computer Studies	0.0
ESL 735	Vocational English as a Second Language for Culinary Arts	0.0

ESL 753	Practical ESL for Early Childhood Professionals	0.0

NOTES:

Choose only one (1) of the requirement options. There are three (3) options to choose from.

Required courses option A: ESL 716 and ESL 716RW
Required courses option B: ESL 781
Required courses option C: ESL 781A and ESL 781B

Plus one (1) course from the list of electives:
Complete one (1) elective course: ESL 716 CP, ESL 722, ESL 732, ESL 735, or ESL 753

ESL: BASIC INTERPERSONAL COMMUNICATIONS

Program of Study Code: 005070

Term Effective: Fall 2019

0.00 Units

(707) 521-6935

ybedolla@santarosa.edu (mailto:ybedolla@santarosa.edu)

PROGRAM REQUIREMENTS:

The Certificate of Completion in Basic Interpersonal Communication prepares high beginning and low-intermediate level ESL students with the English language and literacy skills needed to function independently in English in a variety of vocational and academic situations. The program focuses particularly on the acquisition of reading, writing and speaking skills needed to function independently at work, school and in the community.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate listening and speaking skills needed to communicate at work and in the community;
2. read and interpret critical information in the workplace, at school and in various community settings;
3. fill out applications and write short notes about school, work and/or community-related issues, in writing and/or on the computer; and
4. demonstrate appropriate cultural behavior in school and work-related settings in the United States including the ability to work collegially in multi-cultural settings.

BASIC INTERPERSONAL COMMUNICATIONS - COMPLETE 0.0 UNITS

ESL 714	High Beginning Non-Credit English as a Second Language	0.0
ESL 715	Low Intermediate Non-Credit English as a Second Language	0.0

Complete 1 course from below

ESL 714CP	Beginning-High Non-Credit ESL Conversation/Pronunciation	0.0

ESL 714RW	Beginning-High Non-Credit ESL Reading/Writing	0.0
ESL 722	ESL Computer Literacy	0.0
ESL 724	Vocational English for Speakers of Other Languages	0.0

NOTES:

3 courses needed for this certificate

Required Courses: ESL 714 and ESL 715

Complete one course: ESL 714CP, ESL 714RW, ESL 722 or ESL 724

ESL: FOUNDATIONS OF LITERACY SKILLS

Program of Study Code: 005066

Term Effective: Fall 2012

0.00 Units

(707) 521-6935

ybedolla@santarosa.edu (mailto:ybedolla@santarosa.edu)

PROGRAM REQUIREMENTS:

The Certificate of Completion in Foundations of Literacy Skills sequence of courses required prepares students with little or no academic background in their first language with the preliminary English language and literacy skills needed to function at a basic level in everyday situations at work, school and in the community. Literacy foundation skills are emphasized through a variety of instructional methods and strategies that focus on the development of sound-symbol correspondence, vocabulary development and survival English. Lessons are delivered through direct instruction, exercises and interactive activities that provide opportunities for students to develop basic English reading, writing and speaking skills in meaningful contexts.

PROGRAM STUDENT LEARNING OUTCOMES

1. Read everyday signs and warnings;
2. communicate basic personal information and follow simple directions; and
3. write basic information and fill out simple forms.

FOUNDATIONS OF LITERACY SKILLS - COMPLETE 0.0 UNITS

ESL 712	Beginning Non-Credit ESL Literacy	0.0
ESL 713	Low Beginning Non-Credit English as a Second Language	0.0
ESL 701	Development of Literacy Skills for Native Spanish Speakers	0.0
ESL 713CP		

	Beginning-Low Non-Credit ESL Conversation/Pronunciation	0.0
ESL 713RW	Beginning-Low Non-Credit ESL Reading/Writing	0.0

NOTES:

3 courses needed for this certificate

Required Courses: ESL 712 and ESL 713

Complete one course: ESL 701, ESL 713CP or ESL 713RW

FASHION STUDIES: FASHION DESIGN ASSISTANT

Program of Study Code: 003295

Term Effective: Fall 2017

20.00 Units

(707) 527-4313

lbobo@santarosa.edu (mailto:lbobo@santarosa.edu)

PROGRAM REQUIREMENTS:

The Fashion Studies: Fashion Design Assistant Certificate of Achievement is designed for students interested in careers in the fashion design field as deign assistants, pattern makers with large or small garment producers, or as a fashion entrepreneur who designs their own product. Students will learn about textiles and their manufacture, elements and principles of design as it relates to fashion and the figure, basic principles of fashion design and illustration. Students will develop patterns for original designs or from designer working sketches, execute those designs in fabric, and market the finished product.

PROGRAM STUDENT LEARNING OUTCOMES

1. Design garments, using both flat pattern and draping methods, draft patterns from sketch, and select appropriate fabric and trims.
2. Assemble a sample garment by cutting pattern pieces, and collecting appropriate findings according to specifications.
3. Research and identify the cyclical fashion trends.
4. Analyze garment features to interpret fit, line and design, color for individual figures.
5. Analyze fashion styles and designs appropriate for knitted fabrics and incorporate construction techniques specifically used with knits.
6. Prepare a business plan for a start-up fashion retail company.
7. Use critical thinking skills to analyze fashion design methods and applications.

FASHION STUDIES: FASHION DESIGN ASSISTANT REQUIREMENTS - COMPLETE 20.0 UNITS

FASH 8	Introductory Textiles	3.0

FASH 53	Fashion Analysis	3.0
FASH 56	Fashion Design and Illustration	3.0
FASH 60	Draped Design	2.0
FASH 62A	Flat Pattern Design 1	2.0
FASH 70A	Clothing Construction 1	3.0
FASH 70B	Clothing Construction 2	3.0
FASH 121A	Sewing with Knits: Basic Tee Shirts	0.5
FASH 121B	Advanced Sewing with Knits	0.5
FASH 139	Fashion Entrepreneurship	3.0

NOTES:

No course may be used more than once to fulfill a requirement in the certificate.
Certificate will be awarded upon fulfillment of all course requirements with a grade of 'C' or better.

FASHION STUDIES: RETAIL MERCHANDISING

Program of Study Code: 003297

Term Effective: Fall 2019

20.50 Units

(707) 527-4813

lbobo@santarosa.edu (mailto:lbobo@santarosa.edu)

PROGRAM REQUIREMENTS:

The Fashion Studies: Retail Merchandising Certificate of Achievement is designed for the student who is interested in a career in fashion retail and its many job job opportunities, including sales, buying, fashion consulting, fashion coordination, and fashion display.

PROGRAM STUDENT LEARNING OUTCOMES

1. Utilize effective sales techniques in a retail setting;
2. identify and discuss various "fashion cycles" and trends to recommend pricing structure and retail merchandising strategies;
3. identify and discuss the major categories on accessories important to the apparel lines;
4. describe how the cosmetics and fragrance industry relate to the ready-to-wear industry;
5. demonstrate the ability to recognize and select materials appropriate in fashion apparel and accessories;
6. analyze garment features to interpret fit, pricing, and recommend appropriate purchases to customers;
7. discuss the advantages and disadvantages of fashion apparel and accessories with customers in a retail settings;
8. produce a fashion show;
9. produce a visual merchandising display window; and
10. use critical thinking skills to analyze fashion retail merchandising methods and applications.

FASHION STUDIES: RETAIL MERCHANDISING REQUIREMENTS - COMPLETE 20.5 UNITS

BMK 51	Principles of Selling	3.0
FASH 8	Introductory Textiles	3.0
FASH 52.2	Visual Merchandising	2.0
FASH 53	Fashion Analysis	3.0
FASH 106	Alterations of Readymade Clothes	1.0
FASH 151	Fashion Apparel and Accessories	3.0
FASH 152	Fashion Show	2.0
FASH 152L	Fashion Show Production Lab	0.5

Complete any combination totaling at least 3.0 units from the following:

BMK 60	Retail Merchandising Management	3.0
BMG 61	Skills for Managers	1.5
BMG 63.1	Motivation and Empowerment	1.5

NOTES:

No course may be used more than once to fulfill a requirement in the certificate.
Certificate will be awarded upon fulfillment of all course requirements with a grade of 'C' or better.

FIRE TECHNOLOGY

Program of Study Code: 003060

Term Effective: Fall 2019

30.00 Units

(707) 836-2913

rcollins@santarosa.edu (mailto:rcollins@santarosa.edu)

PROGRAM REQUIREMENTS:

This Fire Technology Certificate of Achievement prepares individuals for an entry level career in the fire service by providing a foundation of core concepts, practices, vocabulary, culture, safety and requirements for the fire service. The program follows the Fire and Emergency Services Higher Education (FESHE) model from the national Fire Academy in Emmitsburg, Maryland and is a component of accreditation from the State Fire Marshal.

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe all elements of the fire service including: fire service history, culture and diversity; minimum qualifications and entry level skills; and all elements of the application, hiring and probationary process.
2. Analyze, appraise and evaluate fire and emergency incidents and identify components of emergency management and firefighter safety.

3. Identify and comprehend laws, regulations, codes and standards that influence fire department operations and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and ordinances and firefighter health and safety;
4. Analyze the causes of fire, determine extinguishing agents and methods; differentiate the stages of the fire and fire development, and compare methods of heat transfer;
5. Identify and describe the equipment and apparatus used in the fire service and the maintenance of said equipment and apparatus;
6. Identify and describe common types of building construction and conditions associated with structural collapse and firefighter safety; and
7. Differentiate between fire detection and alarm systems and identify common health and safety concerns of firefighters and first responders.

FIRE TECHNOLOGY REQUIREMENTS - COMPLETE 30.0 UNITS

FIRE 71	Fire Protection Organization	3.0
FIRE 72	Fire Behavior and Combustion	3.0
FIRE 73	Fire Prevention Technology	3.0
FIRE 74	Fire Protection Equipment and Systems	3.0
FIRE 76	Building Construction for Fire Protection	3.0
FIRE 78	Principles of Fire & Emergency Services Safety and Survival	3.0

Complete any combination totaling at least 12.0 units from the following:

EMC 100	Emergency Medical Responder	2.0
EMC 103	Emergency Medical Technician	5.5
FIRE 50	Ethical Leadership in the Classroom	0.3
FIRE 61	Fire Investigation	3.0
FIRE 77	Hazardous Materials for Public Safety	3.0
FIRE 206	CAL FIRE Wildland Firefighter Academy	1.3
FIRE 208	Introduction to Firefighter I Academy	1.5
FIRE 208.1	Firefighter I Academy	15.0
FIRE 208.5	Firefighter II Capstone Training	0.5
FIRE 219	S-290 Intermediate Wildland Fire Behavior	0.5
FIRE 241	Driver Operator 1A	1.5
FIRE 258	Fire Apparatus 1B, Pumping Apparatus Operations	1.0
FIRE 270.1	All Risk Command Operations for Company Officers	1.0
FIRE 270.2	Wildland Incident Operations for Company Officers	1.0
FIRE 270.3		

Hazardous Materials Incident Commander		2.0
FIRE 271.1	Human Resource Management for Company Officers	1.0
FIRE 271.2	Fire Administration for Company Officers	1.0
FIRE 272	Fire Inspections and Investigations for Company Officers	1.0
FIRE 273.1	Fire Service Instructor 1	1.0
FIRE 273.2	Fire Service Instructor 2 Instructional Development	1.0
FIRE 273.3	Fire Service Instructor III Instructional Program Management	1.0

NOTES:

FIRE 71, FIRE 208 and EMC 100 are prerequisites for the Firefighter 1 Academy (FIRE 208.1). The Firefighter 1 Academy administers and reviews a physical agility test.

All courses taken in conjunction with this program must be completed with a letter grade of C or better.

FIREFIGHTER I ACADEMY

Program of Study Code: 003180

Term Effective: Fall 2019

21.50 Units

(707) 836-2913

rcollins@santarosa.edu (mailto:rcollins@santarosa.edu)

PROGRAM REQUIREMENTS:

The Firefighter I Academy Certificate of Achievement is intended for pre-Fire Service students and Fire Service professionals (volunteer and paid fire fighters) to train in an accepted State curriculum, and as an Accredited Regional Training Program, the Academy is certified by the State Fire Marshal's Office. In addition to the Academy completion certificate, candidates will need to complete field experience (1 year volunteer or 6 months fulltime) in order to obtain their Firefighter I certificate. The academy includes over 481 hours of instruction and basic firefighting skills needed for the entry level professional firefighter to perform his/her duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001, Standards for Firefighter Professional Qualifications, the 2012 edition of NFPA 1051, Standards for Wildland Firefighter Professional Qualifications, and the 2008 edition of NFPA 472, Standards for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. The seven overarching themes of the California State Firefighter I curriculum are: general knowledge germane to the profession, fire department communication, fire ground operations, rescue operations, preparedness and maintenance, wildland suppression activities, and

hazardous materials/WMD. In addition to the curriculum identified in these standards, students receive additional instruction in the areas of Auto extrication, the Incident Command System (ICS), Low Angle Rope Rescue Operations (LARRO), an expanded Wildland Firefighting component that meets the requirements necessary to obtain a Cal Fire Basic Firefighter Certificate, Confined Space Awareness and a rigorous physical training component. Prior to enrolling in the academy, students must complete EMT (EMC 105) or First Responder (EMC 100).

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe fire department organization and the expectations of entry level firefighters;
2. differentiate types of fire behavior and its impact on structural and wildland situations;
3. demonstrate and apply the use of fire department equipment through its selection for given firefighting tasks;
4. demonstrate and apply knowledge of strategies, tactics and incident command through the selection and implementation of firefighting methods and the application of the Incident Command System (ICS); and
5. demonstrate safe practices by using minimum standard safety procedures .

FIREFIGHTER I ACADEMY REQUIREMENTS - COMPLETE 21.5 UNITS

Complete any combination totaling at least 2.0 units from the following:

EMC 100	Emergency Medical Responder	2.0
EMC 103	Emergency Medical Technician	5.5
FIRE 71	Fire Protection Organization	3.0
FIRE 208	Introduction to Firefighter I Academy	1.5
FIRE 208.1	Firefighter I Academy	15.0

FITNESS, NUTRITION AND HEALTH

Program of Study Code: 003331

Term Effective: Fall 2019

26.00 Units

(707) 778-4116

tjacobson@santarosa.edu (mailto:tjacobson@santarosa.edu)

PROGRAM REQUIREMENTS:

The Fitness, Nutrition, and Health Certificate of Achievement at Santa Rosa Junior College is designed to provide an in-depth study and practical application of principles of nutrition, weight management, behavior modification, fitness testing, physical fitness training, exercise leadership and program design. This certificate/major is for students seeking entry-level careers and/or additional training in the fitness and health industry. Possible career opportunities may include personal trainer, group exercise instructor, health or wellness coach, weight management consultant, aerobic dance instructor, and fitness instructor. This program also prepares students to sit for nationally recognized certification exams such as American Council on Exercise (ACE), National Academy of Sports Medicine (NASM), Aerobics and Fitness Association of America (AFAA), and National Strength and

Conditioning Association (NSCA). This certificate is unique in its design because in addition to learning principles of exercise science, it also encompasses comprehensive topics in the area of health, nutrition, and behavior change vital for fitness trainers to address broader client goals and to meet the need of a growing trend toward wellness type coaching. This certificate also has a strong emphasis on practical "hands-on" experience and teaching techniques.

PROGRAM STUDENT LEARNING OUTCOMES

1. Design safe and effective training programs based on client needs, goals, fitness level and health history;
2. demonstrate proper individual and group exercise leadership skills for general and special populations;
3. evaluate client food intake and educate clients on healthful eating habits for weight management and physical performance;
4. integrate behavior modification techniques and concepts of health and wellness to formulate comprehensive training plans; and
5. analyze emerging information in the field of nutrition, health, and fitness and differentiate between credible and non-credible sources and information.

FITNESS, NUTRITION AND HEALTH - COMPLETE 26.0 UNITS

FDNT 10	Elementary Nutrition	3.0
FDNT 60	Nutrition and Physical Fitness	1.0
KINES 50	Teaching Practicum	1.5
KINES 53	Principles of Health and Wellness	3.0
KINES 80	Introduction to Applied Kinesiology and Anatomy	3.0
KINES 81	Intro to Exercise Physiology	3.0
KINES 82	Exercise Assessment and Prescription	3.0
KINES 83	Techniques of Fitness Instruction	3.0
WEOC 99I	Occupational Work Experience Internship	8.0

Complete any combination totaling at least 3.0 units from the following:

BMK 50	Marketing	3.0
BMK 51	Principles of Selling	3.0
DIET 191	Counseling and Group Facilitation Skills in Healthcare	3.0
KINES 4	Introduction to Sports Medicine	3.0
KINES 59	Psychological Aspects of Sport Performance	3.0

Complete any combination totaling at least 1.5 units from the following:

KFIT 1.1	Beginning Aerobic Dance	1.5
KFIT 1.2	Intermediate Aerobic Dance	1.5
KFIT 2.1	Beginning Step Aerobics	1.5
KFIT 2.2	Intermediate Step Aerobics	1.5
KFIT 3.1	Beginning Body Conditioning	1.5
KFIT 3.2	Intermediate Body Conditioning	1.5
KFIT 3.3	Advanced Body Conditioning	1.5

KFIT 5.1	Beginning Pilates Mat	1.5
KFIT 5.2	Intermediate Pilates Mat	1.5
KFIT 6.1	Beginning Yoga	1.5
KFIT 6.2	Intermediate Yoga	1.5
KFIT 7.1	Beginning Circuit Training	1.5
KFIT 7.2	Circuit Training Intermediate	1.5
KFIT 8.1	Weight Lifting with Free Weights	1.5
KFIT 10.1	Resistance Training	1.5
KFIT 11.1	Periodized Weight Training	1.5
KFIT 12.1	Power Lifting	1.5
KFIT 16.1	Plyometrics, Speed and Agility	1.5
KFIT 17.1	Interval Training	1.5
KFIT 20.1	ZUMBA	1.5
KFIT 21.1	Cardio Kickboxing	1.5
KFIT 25.1	Vinyasa Flow Yoga	1.5
KFIT 26.1	Gentle Yoga	1.5
KFIT 30.1	Stability Ball Training	1.5
KFIT 31.1	Pilates Yoga Fusion	1.5
KFIT 32.1	Barre Fitness	1.5
KFIT 36.1	Jogging for Fitness	1.5
KFIT 37.1	Boot Camp	1.5

NOTES:

Student must complete at least one unit from the KFIT courses listed.

WEOC 99I MUST be taken for one unit of Occupational Work Experience Internship: 75 hours (paid) or 60 hours (unpaid). **One unit is the minimum requirement for this program.**

FLORAL DESIGN

Program of Study Code: 003132

Term Effective: Fall 2016

36.00 Units

(707) 527-4395

ddolan@santarosa.edu (mailto:ddolan@santarosa.edu)

PROGRAM REQUIREMENTS:

The Floral Design Certificate of Achievement prepares students for work in the floral design industry. Flower care and handling, basic design, use of seasonal, dry, silk, or exotic plant materials, floral decoration, and special occasion arrangement are some of the skills and topics covered in the program.

PROGRAM STUDENT LEARNING OUTCOMES

1. Name and properly use the tools and mechanics in floral design;
2. demonstrate proper standards of care and handling of fresh floral materials;
3. create fresh floral arrangements and distinguish between the different types of design styles; and
4. demonstrate an entry level knowledge of retail flower shop operation.

FLORAL DESIGN REQUIREMENTS - COMPLETE 18.0 UNITS

FLORS 83A	Beginning Floral Design	2.0
FLORS 83B	Intermediate Floral Design	2.0
FLORS 183C	Advanced Floral Design	2.0
FLORS 187	European & Advanced Contemporary Floral Design	1.0
FLORS 105	Flowers to Wear and Carry	1.0
FLORS 108	Display and Merchandising for Retail Florists	1.0
FLORS 112	Wedding Design	2.0
FLORS 113	Floral Tributes	2.0
FLORS 114	Retail Flower Shop Management	3.0
FLORS 116	Identification and Handling of Flowers, Foliages and Plants	2.0

NOTES:

All courses must be completed with a grade of C or better.

SRJC GENERAL EDUCATION BREADTH

Program of Study Code: 003351

Term Effective: Fall 2018

23.00 Units

(707) 527-4451

(mailto:)

PROGRAM REQUIREMENTS:

The General Education Option A: Local Certificate of Achievement is designed for students wishing to complete local general education requirements without transferring to a four year institution.

PROGRAM STUDENT LEARNING OUTCOMES

1. Communicate effectively, both verbally and in writing.
2. Critically analyze and solve problems.
3. Organize and present information in person in a logical and understandable manner.

GENERAL EDUCATION OPTION A - COMPLETE 23.0 UNITS

See Option A General Education Worksheet for program requirements (https://articulation.santarosa.edu/sites/articulation.santarosa.edu/files/Option%20A%20GE%20Current.pdf)

CSU GENERAL EDUCATION BREADTH

Program of Study Code: 003350

Term Effective: Fall 2018

39.00 Units

(707) 527-4451

(mailto:)

PROGRAM REQUIREMENTS:

The General Education Option B: CSU Breadth Requirements Certificate of Achievement is designed for students planning to transfer to the California State University (CSU) System. It offers students a program of study which meets the lower division CSU general education requirements. Although the certificate recognizes the completion of lower division CSU general education requirements, it does not guarantee admission to a specific campus within the CSU system nor does it guarantee admission to a specific major. Some majors and colleges may require a different lower division preparation and/or a higher GPA than is necessary for this certificate. Students are strongly advised to meet with a counselor to discuss transfer requirements and lower division major preparation that is needed for their intended transfer school.

PROGRAM STUDENT LEARNING OUTCOMES

1. Communicate effectively, both verbally and in writing.
2. Critically analyze and solve problems.
3. Organize and present information in a logical and understandable manner.

GENERAL EDUCATION: OPTION B REQUIREMENTS - COMPLETE 39.0 UNITS

See Option B General Education Worksheet for program requirements (https://articulation.santarosa.edu/sites/articulation.santarosa.edu/files/Option%20B%20GE%20Current.pdf)

INTERSEGMENTAL GENERAL EDUCATION BREADTH (IGETC)

Program of Study Code: 003348

Term Effective: Fall 2018

37.00 Units

(707) 527-4451

(mailto:)

PROGRAM REQUIREMENTS:

The General Education Option C: Intersegmental General Education Transfer Curriculum Certificate of Achievement is designed for students planning to transfer to either the California State University (CSU) or University of California (UC) system. It offers students a program of study which meets IGETC general education transfer requirements. Although the certificate recognizes the completion of IGETC general education requirements, it does not guarantee admission to a specific campus within the CSU or UC system nor does it guarantee admission to a specific major. Some majors and colleges may require a different lower division preparation and/or a higher GPA than is necessary for this certificate. Students are strongly advised to meet with a counselor to discuss transfer requirements and lower division major preparation that is needed for their intended transfer school.

PROGRAM STUDENT LEARNING OUTCOMES

1. Communicate effectively, both verbally and in writing.
2. Critically analyze and solve problems.
3. Organize and present information in a logical and understandable manner.

GENERAL EDUCATION: OPTION C REQUIREMENTS - COMPLETE 37.0 UNITS

See Option C General Education Worksheet for program requirements (https://articulation.santarosa.edu/sites/articulation.santarosa.edu/files/Option%20C%20GE%20Current.pdf)

GEOSPATIAL TECHNOLOGY

Program of Study Code: 003003

Term Effective: Fall 2017

23.50 Units

(707) 527-4603

rparks@santarosa.edu (mailto:rparks@santarosa.edu)

PROGRAM REQUIREMENTS:

The Geospatial Technology Certificate of Achievement and degree prepares students for variety of technical positions in many different professions. Geospatial Technology incorporates new technology with traditional disciplines by mapping and analyzing things that exist and events that happen on earth.

PROGRAM STUDENT LEARNING OUTCOMES

1. Define and describe geospatial terminology, methods, procedures, standards and technology;
2. create, edit and analyze geographic, spatial and remotely sensed data;
3. communicate clearly and effectively in oral, written and graphic formats;
4. prepare layouts, reports, charts and graphs to support different geospatial applications;

5. produce finished quality maps representing a basic analysis, a basic survey or a basic scale-based, descriptive, diagrammatic summary;
6. create a Geographic Information System (GIS) map following standard cartographic principles which can be utilized within a professional portfolio;
7. demonstrate analytical, critical thinking and decision-making skills in geographic information science and technology; and
8. describe the influence/effect that geospatial science and technology has on the local, regional, national and global communities.

GEOSPATIAL TECHNOLOGY CORE REQUIREMENTS - COMPLETE 23.5 UNITS

APTECH 191	Problem Solving in Civil Engineering Technology	3.0
CEST 192	Non-Technical Skills for the Civil Engineering Technician	1.5
GEOG 4	Physical Geography	3.0
GIS 40	Introduction to Geographic Information Systems (GIS)	3.0
GIS 51	Intermediate Geographic Information Systems (GIS)	3.0
GIS 52	Advanced Geographic Information Systems (GIS)	3.0
GIS 53	Cartography in Geographic Information Systems (GIS)	3.0
GIS 54	Data Acquisition in Geographic Information Systems (GIS)	4.0

GRAPHIC DESIGN

Program of Study Code: 003036

Term Effective: Fall 2019

31.50 Units

(707) 527-4909

swinston@santarosa.edu (mailto:swinston@santarosa.edu)

PROGRAM REQUIREMENTS:

The Graphic Design Certificate of Achievement is a two-year program designed to provide students with entry-level skills for business or industry in the field of graphic design, and is structured to provide a practical, hands-on experience in graphic fundamentals. The program addresses basic design principles, layout techniques, professional typographic treatments, computer applications, digital illustration, computer production techniques, offset printing requirements, and business practices.

PROGRAM STUDENT LEARNING OUTCOMES

1. Develop professional level communication visuals from initial concept all the way through printed materials using design principles, an understanding of graphic design history, typographic knowledge, hand mock-up and illustration skills, advanced computer skills using the Adobe Suite, and pre press knowledge;
2. set-up and manage a one person freelance studio complying with governmental regulations, estimating projects, writing up proposals, negotiating with clients, keeping records, billing clients, and managing finances; and
3. create and present a professional portfolio of at least fifteen finished projects to potential employers and clients using professional level interviewing skills and well designed collateral materials.

GRAPHIC DESIGN CERTIFICATE REQUIREMENTS - COMPLETE 31.5 UNITS

CS 70.11A	Adobe Photoshop 1	3.0
CS 71.11	Adobe Illustrator 1	3.0
CS 72.11A	Adobe InDesign 1	3.0
GD 15	History of Graphic Design	3.0
GD 20	Introduction to Typography and Letterforms	3.0
GD 51	Introduction to Graphic Design	3.0
GD 53	Design Techniques in Illustrator	3.0
GD 54	Beginning Page Layout and Advertising Design	3.0
GD 60	Creating the Professional Portfolio	1.5
GD 62	Color Theory for Designers	1.5

Complete any combination totaling at least 4.5 units from the following:

BMK 51	Principles of Selling	3.0
GD 57	Getting It Printed: Digital Prepress and Print Production	3.0
GD 65	Business Skills for Creatives	1.5
GD 90	Designing the User Experience	3.0
GD 145	Package Design	1.5

GRAPHIC DESIGN PRODUCTION FUNDAMENTALS

Program of Study Code: 003246

Term Effective: Fall 2019

15.00 Units

(707) 527-4909

swinston@santarosa.edu (mailto:swinston@santarosa.edu)

PROGRAM REQUIREMENTS:

The Graphic Design Production Fundamentals Skills Certificate prepares the student to do entry level print production in the field of graphic design. This certificate is designed for the student who wants a short program to develop employable skills in this field.

PROGRAM STUDENT LEARNING OUTCOMES

1. Develop simple communication visuals from initial concept to files ready for print;
2. use Adobe Indesign, Photoshop and Illustrator to create basic advertising layouts, posters, logos, business systems, etc. for visual communications projects employing the basic principles and elements of graphic design; and
3. use professional typographic set-up to creat simple visual communication design.

GRAPHIC DESIGN PRODUCTION FUNDAMENTALS REQUIREMENTS - COMPLETE 15.0 UNITS

CS 70.11A	Adobe Photoshop 1	3.0
CS 72.11A	Adobe InDesign 1	3.0
GD 20	Introduction to Typography and Letterforms	3.0
GD 51	Introduction to Graphic Design	3.0
GD 53	Design Techniques in Illustrator	3.0

NOTES:

GD 51, CS 70.11A and CS 72.11A must be completed before enrolling in GD 20 or GD 53.

HEALTH CAREERS ACADEMY

Program of Study Code: 005101

Term Effective: Fall 2018

4.50 Units

(707) 524-4630

talander@santarosa.edu (mailto:talander@santarosa.edu)

PROGRAM REQUIREMENTS:

Health Careers Academy Skills Certificate is designed to introduce students to opportunities in the health care field through lecture, laboratory,and fieldwork experiences. Work-based learning and industry tours are included in the experience.

PROGRAM STUDENT LEARNING OUTCOMES

1. Explain the makeup and function of a healthcare team and discuss the importance of teamwork and communication.
2. Demonstrate understanding of focused career profiles by listing basic education and entry-level job requirements.
3. Recognize and practice techniques of current infection control precautions in laboratory and clinical settings.

HEALTH CAREERS ACADEMY - COMPLETE 4.5 UNITS

HLC 121	Health Careers Academy I	1.5
HLC 121L	Health Careers Academy Lab I	0.8
HLC 122	Health Careers Academy II	1.5
HLC 122L	Health Careers Academy Lab II	0.8

HEALTHCARE INTERPRETER

Program of Study Code: 003339

Term Effective: Fall 2018

27.00 Units

(707) 524-1819

ccarr@santarosa.edu (mailto:ccarr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Healthcare Interpreter Certificate of Achievement prepares students who are bilingual (proficient in English and a second language) to work in a variety of healthcare settings facilitating communication between clients and healthcare providers. Students will follow standards of practice for different modes of interpreting, strengthen their medical bilingual language proficiency, cultural competency, and knowledge of California healthcare systems to assist limited-English proficient (LEP) clients to receive optimal medical care. Students may be exposed to people who are injured, chronically or acutely ill, and experiencing other major life events.

PROGRAM STUDENT LEARNING OUTCOMES

1. Facilitate linguistic and cultural communication between patients (clients) with limited English proficiency (LEP) and healthcare providers in a variety of health service areas.
2. Discuss and implement ethical standards of practice.
3. Demonstrate bilingual medical language proficiency.
4. Employ various technical aspects of interpreting to improve effectiveness.
5. Utilize healthcare interpreter roles and skills in different modes of interpretation.

HEALTHCARE INTERPRETER PREREQUISITE REQUIREMENTS - COMPLETE 12.0 UNITS

COMM 7	Intercultural Communication	3.0
ENGL 1A	College Composition	4.0
HCI 180	Introduction to Healthcare Interpreting	1.5
HCI 180L	Introduction to Healthcare Interpreting Lab	0.5
HCI 181	Fundamentals of Healthcare Interpreting	2.0
HCI 181L	Fundamentals of Healthcare Interpreting - Lab	1.0

HEALTHCARE INTERPRETER REQUIREMENTS - COMPLETE 15.0 UNITS

HCI 182	Developing Healthcare Interpreter Competencies	2.0
HCI 182L	Developing Healthcare Interpreter Competencies - Lab	1.0
HCI 183	Healthcare Interpreting: Externship Seminar	1.0
HCI 183L	Healthcare Interpreting: Externship	2.0
HLC 160	Medical Terminology	3.0

Complete any combination totaling at least 3.0 units from the following:

ANAT 58	Introduction to Human Anatomy	3.0
HLC 140	Health Care Implications of Anatomy and Physiology	1.0

And

ANAT 140	Fundamentals of Anatomy and Physiology	2.0

Complete any combination totaling at least 3.0 units from the following:

COMM 1	Introduction to Public Speaking	3.0
COMM 60	Communication Skills	3.0

HOSPITALITY: MANAGEMENT

Program of Study Code: 003335

Term Effective: Fall 2019

16.00 Units

(707) 527-4435

bad-admin@santarosa.edu (mailto:bad-admin@santarosa.edu)

PROGRAM REQUIREMENTS:

The Hospitality: Management certificate of achievement provides a solid base of world-class customer service training, supervisory skills and industry-specific topics.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate analytical, quantitative, and computer skills necessary to work in the hospitality field;
2. Apply necessary skills required for managing the complex human interactions and communication that takes place in the hospitality industry; and
3. Demonstrate the ability to effectively provide customer service to clients.

HOSPITALITY: FRONT OFFICE MANAGEMENT CORE REQUIREMENTS - COMPLETE 16.0 UNITS

HOSP 50	Introduction to Tourism in Sonoma County	1.0
HOSP 63	Introduction to the Hotel Industry	3.0
HOSP 68	Hospitality Law	3.0
HOSP 80	Introduction to Hospitality	3.0

Complete any combination totaling at least 6.0 units from the following:

BAD 1	Financial Accounting	4.0
BAD 2	Managerial Accounting	4.0
BAD 99	Business Administration Occupational Work Experience	8.0
BGN 111	Soft Skills for Business	3.0
BGN 112	Marketing Your Skills	3.0
BMK 50	Marketing	3.0
BMK 51	Principles of Selling	3.0
BMK 54	Advertising, Branding, & Digital Marketing	3.0
BMK 57	Introduction to Public Relations	1.5
BMK 59	Consumer Behavior	1.5
CUL 222	A Culinary Tour of Sonoma County	1.5
CUL 256.5	Wine Appreciation	1.5
ECON 1	Principles of Macroeconomics	3.0
FDNT 10	Elementary Nutrition	3.0
HOSP 53	Customer Service	1.5
HOSP 54	Customer Relations for the Hospitality Industry	1.5
MATH 15	Elementary Statistics	4.0
WINE 70	Beginning Wine Sensory Analysis	1.5
WINE 102	Wine Marketing	1.5
WINE 111.1	Sonoma American Viticulture Areas-North County	1.5
WINE 111.2	Sonoma American Viticulture Areas-South County	1.5
WINE 130	Wine Service and Hospitality	1.5
WINE 131	Wine Industry Event Planning	1.5

HUMAN SERVICES: ADVOCACY

Program of Study Code: 003196

Term Effective: Fall 2019

37.50 Units

(707) 522-2603

avasquez@santarosa.edu (mailto:avasquez@santarosa.edu)

PROGRAM REQUIREMENTS:

The Human Services Advocacy Certificate of Achievement program is an interdisciplinary approach to understanding the skills needed in human rights advocacy. This program prepares students to work in a community setting at an entry level.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate an understanding of the human services field and its operational function in relation to client services; and
2. examine and perform various human service roles within the profession incorporating counseling skills, ethical principles and sensitivity to diversity;
3. demonstrate ability to use research tools to locate and evaluate information that can be applied to the human services field; and
4. demonstrate an understanding of theoretical principles in the behavioral sciences to help address the needs of human services clients.

HUMAN SERVICES: ADVOCACY CORE REQUIREMENTS - COMPLETE 28.5 UNITS

AODS 90	Introduction to Alcohol and Drug Studies	3.0
COUN 74	Identity and Cultural Diversity	3.0
COUN 87	Ethical Issues in Human Services	1.5
COUN 90	Introduction to Human Services	3.0
COUN 91	Skills and Techniques in Human Services	3.0
COUN 93	Introduction to Case Management	3.0
COUN 99I	Occupational Work Experience Human Services Internship	8.0

Complete any combination totaling at least 3.0 units from the following:

COUN 92	Introduction to Group Counseling	3.0
COUN 94	Introduction to Crisis Counseling	3.0
COUN 96	Disability and Society	3.0

Complete any combination totaling at least 3.0 units from the following:

CHLD 10	Child Growth and Development	3.0
PSYCH 4	Child and Adolescent Psychology	3.0
PSYCH 56	Aging, Dying and Death	3.0

Complete any combination totaling at least 3.0 units from the following:

PSYCH 1A	General Psychology	3.0

PSYCH 5	Abnormal Psychology	3.0

ADVOCACY EMPHASIS REQUIREMENTS - COMPLETE 9.0 UNITS

COUN 95	Advocating for Social Change	3.0

Complete any combination totaling at least 6.0 units from the following:

AJ 25	Community Relations	3.0
AJ 53	Juvenile Procedures	3.0
AJ 56	Crime and Criminal Justice in Society	3.0
AJ 71	Correctional Interviewing & Counseling	3.0
ASL 1	Elementary American Sign Language - Part I	4.0
CHLD 10	Child Growth and Development	3.0
CHLD 53A	Introduction to Children with Special Needs	3.0
CHLD 90.1	Child, Family, Community Interrelationships	3.0
COUN 20	Sex and Gender	3.0
COUN 92	Introduction to Group Counseling	3.0
COUN 94	Introduction to Crisis Counseling	3.0
COUN 96	Disability and Society	3.0
HLC 160	Medical Terminology	3.0
PHIL 7	Contemporary Moral Issues	3.0
PSYCH 3	Human Sexuality	3.0
PSYCH 4	Child and Adolescent Psychology	3.0
PSYCH 5	Abnormal Psychology	3.0
PSYCH 7	Theories of Personality	3.0
PSYCH 30	Social Psychology	3.0
PSYCH 40	Introduction to Psychology of Gender	3.0
PSYCH 56	Aging, Dying and Death	3.0
RELS 2	World Religions	3.0
SOC 2	Modern Social Problems	3.0
SOC 30	Race and Ethnic Relations	3.0

NOTES:

It is strongly recommended that students complete COUN 91 and COUN 99I in the final semester of taking the core requirements.

CHLD 10, COUN 92, COUN 94, COUN 96, PSYCH 4, PSYCH 5 and PSYCH 56 can only count once.

HUMAN SERVICES: ALCOHOL AND DRUG

Program of Study Code: 003194

Term Effective: Spring 2011

46.50 Units

(707) 522-2603

avasquez@santarosa.edu (mailto:avasquez@santarosa.edu)

PROGRAM REQUIREMENTS:

The Human Services: Alcohol and Drug Certificate of Achievement provides the educational component necessary for certification as a Certified Addiction Treatment Specialist through the California Association of Alcohol and Drug Educators (CAADE). Students completing the coursework are eligible to sit for the certifying exam to become a Certified Addiction Treatment Specialist.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate an understanding of the human services field and its operational function in relation to client services;
2. examine and perform various human service roles within the profession incorporating counseling skills, ethical principles and sensitivity to diversity; and
3. identify the essential components of alcohol and drug addiction and employ the tools and skills needed to work with clients in treatment centers.

HUMAN SERVICES CORE REQUIREMENTS - COMPLETE 34.5 UNITS

COUN 74	Identity and Cultural Diversity	3.0
COUN 87	Ethical Issues in Human Services	1.5
COUN 90	Introduction to Human Services	3.0
COUN 91	Skills and Techniques in Human Services	3.0
COUN 92	Introduction to Group Counseling	3.0
COUN 93	Introduction to Case Management	3.0
COUN 94	Intervention/Crisis Counseling Training	3.0
COUN 96	Disability and Society	3.0
AODS 90	Introduction to Alcohol and Drug Studies	3.0

Complete any combination totaling at least 3.0 units from the following:

COUN 99I	Occupational Work Experience Human Services Internship	8.0
WEOC 99I	Occupational Work Experience Internship	8.0

Complete any combination totaling at least 3.0 units from the following:

PSYCH 1A	General Psychology	3.0
PSYCH 5	Abnormal Psychology	3.0

Complete any combination totaling at least 3.0 units from the following:

CHLD 10	Developmental Stages of Childhood	3.0
PSYCH 4	Child and Adolescent Psychology	3.0
PSYCH 56	Aging, Dying and Death	3.0

ALCOHOL & DRUG EMPHASIS REQUIREMENTS - COMPLETE 12.0 UNITS

AODS 91	Prevention and Education on Alcohol and Drugs	3.0
AODS 92	Pharmacological & Physiological Effects of Alcohol & Drugs	3.0
AODS 93	Rehabilitation of Alcohol & Drug Problems	3.0
COUN 99I	Occupational Work Experience Human Services Internship	8.0

NOTES:

It is strongly recommended that students complete COUN 91 and COUN 99I in the final semester of taking the core requirements. In this program, COUN 99I consists of internships in alcohol or drug settings.
CAADE Certification requires that students complete two interships in different modalities. Students will therefore complete a second COUN 99I internship as part of the Alcohol and Drug emphasis requirements.

INDUSTRIAL MAINTENANCE FUNDAMENTALS

Program of Study Code: 003238

Term Effective: Fall 2019

11.00 Units

(707) 527-4603

guser38@santarosa.edu (mailto:guser38@santarosa.edu)

PROGRAM REQUIREMENTS:

The Industrial Maintenance Fundamentals Skills Certificate prepares individuals for employment as electro-mechanical maintenance technicians in high tech manufacturing. Instruction is provided in the fundamentals of electronics, programmable logic controllers, rotating machinery, and mathematics. This program was created in cooperation with local high tech manufacturing companies that have a need for trained maintenance technicians. Currently, the demand for these technicians is on the rise. Possible job titles include: technician, electronic technician, machine technician/specialist, machine operator, maintenance worker, maintenance mechanic.

PROGRAM STUDENT LEARNING OUTCOMES

1. Write complex programs for Programmable Logic Controllers (PLC) for at least two manufacturers' systems.
2. Identify and troubleshoot PLC program problems.
3. Operate and maintain AC and DC motors, generators and controllers.

4. Implement safety procedures in the workplace.
5. Perform mathematical computations related to voltage, current, power and duty cycle.
6. Understand safety codes and regulations applied to usage of industrial equipment and industrial working environment.

INDUSTRIAL MAINTENANCE FUNDAMENTALS REQUIREMENTS - COMPLETE 11.0 UNITS

ELEC 153	Programmable Logic Controllers	3.0
ELEC 154	Rotating Machinery	3.0

Complete any combination totaling at least 3.0 units from the following:

ELEC 51A	Fundamentals of Electricity	3.0
ELEC 54A	Direct and Alternating Current Theory	3.0

Complete any combination totaling at least 2.0 units from the following:

DET 184	Mobile Hydraulics	3.0
MACH 51A	Beginning Machine Tool Technology	2.0
WEOC 99	Occupational Work Experience	8.0
WEOC 99I	Occupational Work Experience Internship	8.0
WELD 170	Beginning Welding: Fundamentals of Arc and Gas Welding	2.0

INTERIOR DESIGN

Program of Study Code: 003265

Term Effective: Fall 2018

34.00 Units

(707) 527-4603

scanepa@santarosa.edu (mailto:scanepa@santarosa.edu)

PROGRAM REQUIREMENTS:

The Interior Design Certificate of Achievement prepares students for employment in full service interior design firms, retail establishments, architectural firms, space planning agencies, real estate, and development companies.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply problem solving to produce practical solutions to clients' space needs by applying the materials, methods, and principles of interior design, including historical, sustainable and design for special populations;
2. Use manual and digital graphic methods and oral presentation skills to communicate interior design solutions to sub-contractors, suppliers, and clients;

3. Identify the business practices, building codes, and professional ethics of the interior design trade.

INTERIOR DESIGN REQUIREMENTS - COMPLETE 34.0 UNITS

APTECH 46	Introduction to Computer-Aided Drafting	2.0
APTECH 59	Architectural CAD Basics	2.0
ARCH 60	Digital Presentation Graphics	2.0
ARCH 65	3D Modeling with Revit	2.0
INDE 20	Introduction to Interior Design	3.0
INDE 50	Drafting and Drawing for Interiors	3.0
INDE 52	Interior Environment and Space Planning	3.0
INDE 62.1	History of Furniture 1	3.0
INDE 63	Interior Products, Materials, and Lighting	3.0
INDE 64.1	Professional Practices for Interior Design	3.0
INDE 136	Interior Design Studio	3.0
INDE 140	Portfolios for Interior Design	2.0

Complete any combination totaling at least 3.0 units from the following:

ARCH 2.1	History of World Architecture: Prehistory to Gothic	3.0
ARCH 2.2	History of World Architecture: Renaissance to 20th Century	3.0
ARCH 2.3	History of World Architecture: 20th Century and Contemporary	3.0
ARCH 12	Introduction to Environmental Design	3.0
ART 3	Introduction to Art and Design	3.0
ART 4	Principles of Color	3.0
ART 5	Three Dimensional Design	3.0
ART 7A	Drawing and Composition 1	3.0
ART 82	Beginning Digital Photography	3.0
BMK 50	Marketing	3.0
BMK 51	Principles of Selling	3.0
BMK 54	Advertising	3.0
BMK 57	Introduction to Public Relations	1.5
BMK 59	Consumer Behavior	1.5
COMM 1	Introduction to Public Speaking	3.0
COMM 60	Communication Skills	3.0
CS 71.11	Adobe Illustrator 1	3.0
CS 74.11	Introduction to Digital Media	3.0

INTERIOR DESIGN: TECHNICAL

Program of Study Code: 003264

Term Effective: Spring 2018

34.00 Units

(707) 527-4603

scanepa@santarosa.edu (mailto:scanepa@santarosa.edu)

PROGRAM REQUIREMENTS:

The Interior Design: Technical Certificate of Achievement prepares students for employment in a number of interior retail merchandising areas such as, home accessory, countertop surface, wholesale design, do-it-yourself merchandise, floorcoverings, furniture, lighting, paint, and wallcoverings.

PROGRAM STUDENT LEARNING OUTCOMES

1. Recognize, identify, and select materials appropriate to clients' needs for an interior design project;
2. Demonstrate mastery of the manual and computer graphic techniques used by interior designers;
3. Prepare a set of interior design construction documents to communicate to subcontractors, suppliers, and clients.

INTERIOR DESIGN: TECHNICAL REQUIREMENTS - COMPLETE 17.0 UNITS

ARCH 60	Digital Presentation Graphics	2.0
ARCH 65	3D Modeling with Revit	2.0
APTECH 46	Introduction to Computer-Aided Drafting	2.0
APTECH 59	Architectural CAD Basics	2.0
INDE 20	Introduction to Interior Design	3.0
INDE 50	Drafting and Drawing for Interiors	3.0
INDE 63	Interior Products, Materials, and Lighting	3.0

JOURNALISM: DIGITAL

Program of Study Code: 003336

Term Effective: Fall 2018

23.00 Units

(707) 527-4867

abelden@santarosa.edu (mailto:abelden@santarosa.edu)

PROGRAM REQUIREMENTS:

The Digital Journalism Certificate of Achievement provides students with an introduction to and skills in digital journalism and provides hands-on preparation for entry-level work in web journalism and/or an overlay of digital skills for recent journalism graduates and seasoned print journalists.

PROGRAM STUDENT LEARNING OUTCOMES

1. Develop, create, report, research and produce technically well-executed news and feature stories for the web and/or broadcast news using combinations of text, images, audio, video and social media.
2. Use new website, audio and video software systems to produce multimedia stories.
3. Write news and feature stories on print and web deadlines using foundational journalism skills such as developing story ideas, conducting research, interviewing sources, and applying proper grammar and Associated Press Style.
4. Exercise news judgment and apply knowledge of online journalism ethical, legal and content issues to real-life situations.
5. Analyze and evaluate multimedia stories for content, aesthetics and technical quality.

JOURNALISM: DIGITAL CORE REQUIREMENTS - COMPLETE 14.0 UNITS

CS 74.11	Introduction to Digital Media	3.0
JOUR 1	Introduction to Journalism	3.0
JOUR 52A	Newspaper Practice 1	5.0
JOUR 55	Multimedia Reporting	3.0

JOURNALISM: DIGITAL ELECTIVE REQUIREMENT - COMPLETE 9.0 UNITS

Complete any combination totaling at least 9.0 units from the following:

ART 82	Beginning Digital Photography	3.0
CS 50A	Web Development 1	3.0
CS 50.32	Web and Digital Media Projects	4.0
CS 57.11	Introduction to Social Media	3.0
CS 70.11A	Adobe Photoshop 1	3.0
CS 71.11	Adobe Illustrator 1	3.0
CS 72.11A	Adobe InDesign 1	3.0
CS 74.21A	Digital Video Post Production Techniques 1	1.5
CS 74.21B	Digital Video Post-Production Techniques 2	1.5
JOUR 52B	Newspaper Practice 2	5.0
JOUR 106	Editing for News Media	1.5
MEDIA 20	Introduction to Digital Filmmaking	4.0
MEDIA 21	Intermediate Digital Filmmaking	4.0
MUSC 51A	Digital Audio 1: Fundamentals	3.0
MUSC 51B	Digital Audio 2: Multimedia	3.0

JUVENILE CORRECTIONAL BASIC COURSE

Program of Study Code: 005030

Term Effective: Fall 2018

5.00 Units

(707) 836-2912

achapman@santarosa.edu (mailto:achapman@santarosa.edu)

PROGRAM REQUIREMENTS:

The Juvenile Correctional Officer Basic Course Skills Certificate is designed to ensure safe, secure, humane and constructive care for minors under the officers' supervision and control. The course includes orientation, transportation, daily care and custody, report writing, handling emergencies, and other tasks as required. The Juvenile Correctional Officer Basic Course Certificate program is a state mandated course of instruction for entry-level staff currently employed or seeking employment as a juvenile counselor.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify and demonstrate major tasks and responsibilities of juvenile correction officer in juvenile detention facilities in the State of California as defined in the latest statewide job analysis;
2. identify and describe the overall mission of a juvenile corrections officer and its place in the California Criminal Justice System as established in state law.

JUVENILE CORRECTIONAL OFFICER BASIC COURSE REQUIREMENTS - COMPLETE 5.0 UNITS

AJ 366	Juvenile Corrections Officer Core Course	5.0

LAW ENFORCEMENT

Program of Study Code: 003063

Term Effective: Fall 2014

18.00 Units

(707) 836-2904

achapman@santarosa.edu (mailto:achapman@santarosa.edu)

PROGRAM REQUIREMENTS:

The Law Enforcement Certificate of Achievement program provides practical and technical instruction to meet the requirements of various law enforcement agencies at the local, state and federal levels. The basic responsibilities of a law enforcement officer are to preserve the peace, prevent crime, protect life and property, enforce laws and detect and arrest violators of the law.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply the principles of proper law enforcement techniques as they relate to the prevention, detection, and investigation of crime;
2. valuate a situation in a cultural and/or social context and apply the appropriate law enforcement techniques to reach an acceptable response and resolution;
3. analyze incidents in the context of the criminal justice system assuring alignment with constitutional or statutory protections are necessary; and
4. evaluate and analyze a crime scene to ensure the proper recognition, identification, collection, preservation, and scientific analysis of physical evidence.

LAW ENFORCEMENT REQUIREMENTS - COMPLETE 18.0 UNITS

AJ 22	Concepts of Criminal Law	3.0
AJ 54A	Introduction to Evidence	3.0
AJ 54B	Basic Criminal Investigation	3.0
AJ 55	Criminal Court Process	3.0
AJ 56	Crime and Criminal Justice in Society	3.0

Complete any combination totaling at least 3.0 units from the following:

AJ 21	Introduction to Administration of Justice	3.0
AJ 25	Community Relations	3.0
AJ 140	Introduction to Homeland Security	3.0

NOTES:

In order to receive this certificate, all courses must be completed with a grade of C or better.
New students should consult an Administration of Justice Program Advisor.
Note: It is recommended that career Law Enforcement persons consider enrolling in District Police Campus Patrol courses for experience in the field . Interested students should contact the Districe Police Chief for more information.

LAW ENFORCEMENT SUPERVISOR TECHNIQUES

Program of Study Code: 005026

Term Effective: Fall 2018

2.00 Units

(707) 836-2912

achapman@santarosa.edu (mailto:achapman@santarosa.edu)

PROGRAM REQUIREMENTS:

This single-course Skills Certificate will identify the training necessary for law enforcement supervisors mandated by Peace Officer Standards and Training, a state regulatory agency. This course will address leadership styles, motivation, communication, problem solving and discipline issues.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate ethical leadership and supervision practices in a public safety environment;
2. Explain legal responsibility regarding proper implementation of policy and procedures

LAW ENFORCEMENT SUPERVISOR TECHNIQUES - COMPLETE 2.0 UNITS

AJ 215.1	Law Enforcement Supervisor Techniques	2.0

MACHINE TOOL TECHNOLOGY

Program of Study Code: 003034

Term Effective: Fall 2019

24.00 Units

(707) 527-4488

wmccracken@santarosa.edu (mailto:wmccracken@santarosa.edu)

PROGRAM REQUIREMENTS:

The Machine Tool Technology Certificate of Achievement offers both theoretical and hands on training related to lathes, vertical mills, drill press, hand tools, Computer Numeric Control (CNC) lathes and mills, and Computer Aided Machining (CAM).

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate safe operation of hand tools, power tools and specialized machine shop tools and equipment;
2. demonstrate the set up and operation of manual lathes and mills;
3. interpret CNC (Computer Numeric Control) programming language;
4. accurately analyze and interpret blueprints and create part(s) to specifications;
5. interpret blueprints and GD&T (Geometric Dimensioning & Tolerancing) symbols in order to verify dimensions of a machine part; and
6. describe applications of design, manufacturing, and fabrication applicable to non-ferrous metals.

MACHINE TOOL TECHNOLOGY REQUIREMENTS - COMPLETE 24.0 UNITS

APTECH 45	Basic Drafting Skills	1.5
APTECH 46	Introduction to Computer-Aided Drafting	2.0
IED 190	Industrial Mathematics	1.5
MACH 51A	Beginning Machine Tool Technology	2.0
MACH 51B	Advanced Machine Tool Technology	2.0
MACH 80A	Introduction to Computer Numeric Control Lathe	5.0
MACH 80B		

	Introduction to Computer Numeric Control Mill	5.0
MACH 161	Metallurgy	3.0
WELD 170	Beginning Welding: Fundamentals of Arc and Gas Welding	2.0

MACHINE TOOL TECHNOLOGY: BASIC CNC LATHE

Program of Study Code: 003293

Term Effective: Fall 1981

7.00 Units

(707) 527-4488

eriley@santarosa.edu (mailto:eriley@santarosa.edu)

PROGRAM REQUIREMENTS:

The Machine Tool Technology: Basic CNC Lathe Skills Certificate offers both theoretical and hands-on training related to CNC lathes. Individuals who complete the Basic CNC Lathe Certificate program are prepared for employment in large and small manufacturing facilities as production workers, set-up persons, and machine operators.

PROGRAM STUDENT LEARNING OUTCOMES

1. Grind a tool bit into a right handed turning tool utilizing a pedestal grinder and a piece of high speed steel (H.S.S.);
2. write a program using G (General Function) and M (Miscellaneous Function) codes; and
3. describe the differences between X, Y, and Z axis.

BASIC CNC LATHE REQUIREMENTS - COMPLETE 7.0 UNITS

MACH 51A	Beginning Machine Tool Technology	2.0
MACH 80A	Introduction to Computer Numeric Control Lathe	5.0

NOTES:

Certificate will be awarded upon successful completion of all courses with a grade of "C" or better.

MACHINE TOOL TECHNOLOGY: BASIC CNC MILL

Program of Study Code: 003294

Term Effective: Fall 1981

12.00 Units

(707) 527-4488

eriley@santarosa.edu (mailto:eriley@santarosa.edu)

PROGRAM REQUIREMENTS:

The Machine Tool Technology: Basic CNC Mill Certificate of Achievement offers both theoretical and hands-on training related to CNC mills. Individuals who complete the Machine Tool Technology: Basic CNC Mill Certificate program are prepared for employment in large and small manufacturing facilities as production workers, set-up persons, and machine operators.

PROGRAM STUDENT LEARNING OUTCOMES

1. Grind a tool bit into a right handed turning tool utilizing a pedestal grinder and a piece of high speed steel (H.S.S.);
2. write a program using G (General Function) and M (Miscellaneous Function) codes; and
3. describe the differences between X, Y, and Z axis.

BASIC CNC MILL REQUIREMENTS - COMPLETE 12.0 UNITS

MACH 51A	Beginning Machine Tool Technology	2.0
MACH 80A	Introduction to Computer Numeric Control Lathe	5.0
MACH 80B	Introduction to Computer Numeric Control Mill	5.0

NOTES:

Certificate will be awarded upon successful completion of all courses with a grade of "C" or better.

MACHINE TOOL TECHNOLOGY: BASIC MANUAL MACHINE TOOL TECHNOLOGY

Program of Study Code: 005044

Term Effective: Fall 1981

4.00 Units

(707) 527-4488

eriley@santarosa.edu (mailto:eriley@santarosa.edu)

PROGRAM REQUIREMENTS:

The Machine Tool Technology: Basic Manual Machine Tool Technology Skills Certificate offers both theoretical and hands-on training related to manual lathes, vertical mills, drill presses, sawing machines and hand tools. Individuals who complete the Machine Tool Technology: Basic Manual Machine Tool Technology Certificate program are prepared for employment as machine operators in manual machine shops and automotive machine shops.

PROGRAM STUDENT LEARNING OUTCOMES

1. Grind a tool bit into a right handed turning tool utilizing a pedestal grinder and a piece of high speed steel (H.S.S.);
2. write a program using G (General Function) and M (Miscellaneous Function) codes; and
3. describe the differences between X, Y, and Z axis.

BASIC MANUAL MACHINE TOOL TECHNOLOGY REQUIREMENTS - COMPLETE 4.0 UNITS

MACH 51A	Beginning Machine Tool Technology	2.0
MACH 51B	Advanced Machine Tool Technology	2.0

NOTES:

Certificate will be awarded upon successful completion of all courses with a grade of "C" or better.

MEDICAL ASSISTING: ADMINISTRATIVE

Program of Study Code: 003156

Term Effective: Fall 2017

28.50 Units

(707) 527-4272

guser58@santarosa.edu (mailto:guser58@santarosa.edu)

PROGRAM REQUIREMENTS:

The Medical Assisting: Administrative Certificate of Achievement prepares students for work in physicians' offices, medical clinics, hospital outpatient clinics, health agencies, and educational institutions. This certificate provides training in administrative (front office) skills.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate ability to greet patients, answer telephones, schedule appointments, maintain and filing client medical records, complete insurance forms, arrange hospital admissions and laboratory services, handle billing, bookkeeping, and physician correspondence; and
2. demonstrate means of helping to maintain a neat, clean waiting room and front office.

MEDICAL ASSISTING CORE REQUIREMENTS - COMPLETE 20.5 UNITS

CS 60.11A	Microsoft Word, Part 1	1.5
HLC 160	Medical Terminology	3.0
MA 160	Introduction to Medical Office Practice	3.0
MA 161	Law and Ethics for Medical Assistants	1.0
MA 162	Disease Processes	4.0
MA 171		

Electronic Health Records in the Medical Office Setting		2.0
PSYCH 1A	General Psychology	3.0

Complete any combination totaling at least 3.0 units from the following:

ANAT 58	Introduction to Human Anatomy	3.0
ANAT 140	Fundamentals of Anatomy and Physiology	2.0

And

HLC 140	Health Care Implications of Anatomy and Physiology	1.0

MEDICAL ASSISTING: ADMINISTRATIVE REQUIREMENTS - COMPLETE 8.0 UNITS

MA 166.1	Externship: Medical Assisting	3.5
MA 167	Basic Diagnostic Coding	1.5
MA 168	Basic Medical Office Insurance Billing	1.5
MA 169	Procedural Coding	1.5

NOTES:

All courses must be completed with a "C" or better to receive a certificate.

MEDICAL ASSISTING: ADMINISTRATIVE AND CLINICAL

Program of Study Code: 003155

Term Effective: Fall 2019

35.00 Units

(707) 527-4272

guser58@santarosa.edu (mailto:guser58@santarosa.edu)

PROGRAM REQUIREMENTS:

The Medical Assisting: Administrative and Clinical Certificate of Achievement prepares students for work in physicians' offices, medical clinics, hospital outpatient clinics, health agencies, and educational institutions. Students completing the program will be eligible to sit for the California Certifying Board for Medical Assistants (CCBMA) exam. This program provides training in both administrative (front office) and clinical (back office) skills.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate ability to greet patients, answer telephones, schedule appointments, maintain and filing client medical records, complete insurance forms, arrange hospital admissions and laboratory services, handle billing, bookkeeping, and physician correspondence;
2. demonstrate ability to perform clinical tasks such as taking and recording vital signs and medical histories, explaining treatment procedures to clients, preparing clients for examinations, and assisting during examinations;

3. collect and prepare laboratory specimens and perform basic laboratory tests on the premises, dispose of contaminated supplies, and sterilize medical instruments;
4. present in an instructional manner information about medication and special diets;
5. demonstrate ability to perform other clinical tasks such as preparing and administering medications as directed by a physician, authorizing drug refills as directed, telephoning prescriptions to a pharmacy, preparing clients for x-rays, taking EKG's, removing sutures and changing dressings; and
6. arrange examining room instruments and equipment, purchase and maintain supplies and equipment, and keep waiting and examining rooms neat and clean.

MEDICAL ASSISTING CORE REQUIREMENTS - COMPLETE 16.5 UNITS

HLC 160	Medical Terminology	3.0
LIR 10	Introduction to Information Literacy	1.0
MA 160	Introduction to Medical Office Practice	3.0
MA 161	Law and Ethics for Medical Assistants	1.0
MA 162	Disease Processes	4.0
MA 168	Basic Medical Office Insurance Billing	1.5

Complete any combination totaling at least 3.0 units from the following:

ANAT 58	Introduction to Human Anatomy	3.0
ANAT 140	Fundamentals of Anatomy and Physiology	2.0
And		
HLC 140	Health Care Implications of Anatomy and Physiology	1.0

MEDICAL ASSISTING: ADMINISTRATIVE AND CLINICAL - COMPLETE 18.5 UNITS

MA 163	Basic Clinical Skills for Medical Assisting	3.0
MA 163L	Beginning Externship	1.5
MA 164	Laboratory Techniques	2.0
MA 165	Pharmacology & Administration of Medications	3.0
MA 167	Basic Diagnostic Coding	1.5
MA 169	Procedural Coding	1.5
MA 174	Intermediate Clinical Skills for Medical Assisting	4.0
MA 176	Intermediate Externship	2.0

NOTES:

All courses must be completed with a "C" or better to receive the certificate.

MEDICAL ASSISTING: CLINICAL

Program of Study Code: 003157

Term Effective: Fall 2017

37.50 Units

(707) 527-4272

guser58@santarosa.edu (mailto:guser58@santarosa.edu)

PROGRAM REQUIREMENTS:

The Medical Assisting: Clinical Certificate of Achievement prepares students for work in physicians' offices, medical clinics, hospital outpatient clinics, health agencies, and educational institutions. Students completing the program will be eligible to take the California Examination for Certified Medical Assistants. This program provides training in clinical (back office) skills.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate ability to perform clinical tasks such as taking and recording vital signs and medical histories, explaining treatment procedures to clients, preparing clients for examinations, and assisting during examinations;
2. collect and prepare laboratory specimens and perform basic laboratory tests on the premises, dispose of contaminated supplies, and sterilize medical instruments;
3. present in an instructional manner information about medication and special diets;
4. demonstrate ability to perform other clinical tasks such as preparing and administering medications as directed by a physician, authorizing drug refills as directed, telephoning prescriptions to a pharmacy, drawing blood, preparing clients for x-rays, taking EKG's, removing sutures and changing dressings; and
5. arrange examining room instruments and equipment, purchase and maintain supplies and equipment, and keep waiting and examining rooms neat and clean.

MEDICAL ASSISTING CORE REQUIREMENTS - COMPLETE 20.5 UNITS

CS 60.11A	Microsoft Word, Part 1	1.5
HLC 160	Medical Terminology	3.0
MA 160	Introduction to Medical Office Practice	3.0
MA 161	Law and Ethics for Medical Assistants	1.0
MA 162	Disease Processes	4.0
MA 171	Electronic Health Records in the Medical Office Setting	2.0
PSYCH 1A	General Psychology	3.0

Complete any combination totaling at least 3.0 units from the following:

ANAT 58	Introduction to Human Anatomy	3.0
ANAT 140	Fundamentals of Anatomy and Physiology	2.0

And

HLC 140	Health Care Implications of Anatomy and Physiology	1.0

MEDICAL ASSISTING: CLINICAL REQUIREMENTS - COMPLETE 17.0 UNITS

MA 163	Basic Clinical Skills for Medical Assisting	3.0
MA 163L	Clinical Internship	2.0
MA 164	Theories of the Clinical Laboratory	2.0
MA 165	Pharmacology and Administration of Medications	3.0
MA 174	Intermediate Clinical Skills for Medical Assisting	4.0
MA 176	Clinical Externship	3.0

NOTES:

Students who are on a "fast track" and are interested in completing the program more quickly, are encouraged to take HLC 160 in the summer.
All courses must be completed with a 'C' or better to receive the certificate.

NATURAL RESOURCES

Program of Study Code: 003275

Term Effective: Fall 2018

20.00 Units

(707) 527-4408

kwade@santarosa.edu (mailto:kwade@santarosa.edu)

PROGRAM REQUIREMENTS:

The Natural Resources Certificate of Achievement is designed for individuals who wish to acquire specific skills and knowledge necessary for successful job performance for the natural resources technician. The work of a natural resources technician supports and complements that of a professional forester, park manager and the professional watershed manager. The principal duties of the technicians involve the work in open spaces, parks, rivers and forests. Typical work may include duties related to reforestation, range management, research and extension work, watershed restoration and park management work. Population growth and the diverse natural resource base in California have created a demand for individuals trained in natural resource conservation. This program is designed to equip individuals with skills to make a positive impact on the sustainable use of natural resources.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify and discuss historical approaches to Natural Resource Management in the U.S.;
2. Develop and use vocabulary for the protection, cultivation and management of wildlands;

3. Discuss economic benefits to protecting healthy watershed characteristics including: recreation opportunities, biological diversity, species richness and clean water;
4. Critically analyze and apply research and extension work in the field of watershed, park management, and forestry; and
5. Identify best management practices strategies for managing land and recreational areas.

NATURAL RESOURCES CORE REQUIREMENTS - COMPLETE 20.0 UNITS

Complete any combination totaling at least 20.0 units from the following:

AGRI 60	Soil & Plant Nutrition	3.0
NRM 12	Introduction to Environmental Conservation	3.0
NRM 51	Wildland Trees and Shrubs	3.0
NRM 70	Forest Management and Assessment	4.0
NRM 84	Introduction to Fish and Wildlife Conservation	3.0
NRM 87	Geographic Info. Systems Applications in Natural Resources	3.0
NRM 88	Watershed Ecology and Restoration	3.0
NRM 99I	Natural Resources Mgnt Occupational Work Experience Intern	8.0

OFFICE ASSISTANT

Program of Study Code: 003115

Term Effective: Fall 2017

12.00 Units

(707) 527-4458

kseder@santarosa.edu (mailto:kseder@santarosa.edu)

PROGRAM REQUIREMENTS:

The Office Assistant Skills Certificate prepares the student for employment in a clerical type position. The program includes skill building in communication, team work, project management, and problem solving skills.

PROGRAM STUDENT LEARNING OUTCOMES

1. Use a word processing program to complete business documents and projects;
2. apply correct grammar, punctuation, and spelling in business documents and correspondence;

3. use critical thinking, problem solving, interpersonal, and collaborative skills to complete work independently or in a team in an ethical and professional manner;
4. use integrated math computational skills to solve a variety of business applications such as inventory, payroll, calculating interest, and budget monitoring; and
5. complete office tasks such as filing, providing customer service, using telephone techniques, and entering data in software programs.

OFFICE ASSISTANT REQUIREMENTS - COMPLETE 12.0 UNITS

BGN 71	Business English	3.0
BGN 102	Typing-Skill Building	1.5
BGN 110	Exploring Business Careers	1.0
BGN 111	Soft Skills for Business	3.0
BGN 205	Basic Filing	0.5
CS 60.11A	Microsoft Word, Part 1	1.5
CS 61.11A	Microsoft Excel, Part 1	1.5

PARAMEDIC

Program of Study Code: 003160

Term Effective: Fall 2019

50.25 Units

(707) 836-2907

ahsieh@santarosa.edu (mailto:ahsieh@santarosa.edu)

PROGRAM REQUIREMENTS:

The Paramedic Certificate of Achievement program provides technical and practical knowledge and skills to meet the requirements of the California Administrative Code to gain certification as a paramedic by the California State Emergency Medical Services Authority. Students must be 18 years of age by course completion to become certified. Upon successful completion of this certificate, the student will be able to: 1.Complete the National Registry written exam; 2.complete the National Registry Skills Exam; and 3.demonstrate professional behavior consistent with criteria for employment as a licensed paramedic.

PROGRAM STUDENT LEARNING OUTCOMES

1. Competent in the cognitive domain to successfully complete the National Registry written exam;
2. competent in the psychomotor domain to successfully complete the National Registry exam; and
3. demonstrate professional behavior consistent for employment as a licensed paramedic.

PROGRAM SELECTION PROCESS:

Please see the **Public Safety (http://www.santarosa.edu/ps/)** department website for more information about entering the program. A current EMT-1 certificate is required to enter this program.

PARAMEDIC PREREQUISITES - COMPLETE 11.8 UNITS

ANAT 40	Introduction to Human Anatomy and Physiology	4.0
EMC 103	Emergency Medical Technician	5.5
EMC 109	Introduction to Paramedic	0.3
EMC 114	Basic Arrhythmia Recognition Course	2.0

PARAMEDIC CERTIFICATE CORE REQUIREMENTS - COMPLETE 38.5 UNITS

EMC 131A	Paramedic Clinical Practicum 1	2.0
EMC 131B	Paramedic Clinical Practicum 2	3.0
EMC 133A	Paramedic Theory 1A - Preparatory	9.5
EMC 133B	Paramedic Theory 1B - Trauma Emergencies	2.5
EMC 133C	Paramedic Theory 2A - Medical Emergencies	8.0
EMC 133D	Paramedic Theory 2B - Pediatric and other Emergencies	3.5
EMC 134	Paramedic Field Practicum	10.0

NOTES:

Student's participating in the program must have the following:

High school diploma/GED
Current EMT- 1 certificate
Current health care provider CPR certification
Current immunizations (MMR, Tetanus, Hepatitis B, negative TB Skin test)
Evidence of good health verified by a physical examination
Background clearance

EMC program staff registers students into EMC 133A through D and 131A after enrollment is complete. Students are unable to enroll independently.
EMC 109 is taken in the Spring before the Paramedic Academy begins. Enrollment into EMC 109 is based on approval from EMC Program.
EMC 133A begins in early August and continues into Fall semester. EMC 131A is a co-enrollment with EMC 133A.

Outside coursework for EMC 114 and ANAT 40 may be accepted for application to the Paramedic Academy. Determination of acceptance is made on a case by case basis. Prospective students should review the student learning objectives for each course and compare them to the outside coursework prior to taking the class(es).

ANAT 58 may be considered as a substitute for ANAT 40

PENAL CODE 832 POWERS OF ARREST

Program of Study Code: 005029

Term Effective: Fall 2018

1.50 Units

(707) 836-2912

achapman@santarosa.edu (mailto:achapman@santarosa.edu)

PROGRAM REQUIREMENTS:

This single-course Skills Certificate is an introduction to criminal law, laws of arrest, search and seizure and basic law enforcement principles and practices. It fulfills the arrest component of the training mandated by California Penal Code Section 832 (PC 832) for employment as a peace officer. The course is certified by the California Commission on Peace Officer Standards and Training (POST) and the State Standards and Training for Corrections Program (STC).

PROGRAM STUDENT LEARNING OUTCOMES

1. Describe the role and responsibilities of a peace officer in the State of California;
2. describe the role of arrest in the criminal justice system

PENAL CODE 832 POWERS OF ARREST - COMPLETE 1.5 UNITS

AJ 221.9	Penal Code 832 Powers of Arrest Course	1.5

PEST CONTROL ADVISER

Program of Study Code: 003337

Term Effective: Fall 2019

42.00 Units

(707) 527-4987

mpadgettjohnson@santarosa.edu (mailto:mpadgettjohnson@santarosa.edu)

PROGRAM REQUIREMENTS:

The Pest Control Adviser (PCA) Certificate of Achievement prepares students to be licensed professional production consultants who serve California agriculture, natural resource and horticulture producers. PCAs specialize in pest and disease management. In addition they are an important resource to growers in matters related to general plant health. This certificate satisfies the core-course requirements specified for “Option 3.b” in preparing for and qualifying to take the PCAs exam(s) with the California Department of Pesticide Regulation (DPR). The following courses need to be completed with a 2.0 or better grade point average.

PROGRAM STUDENT LEARNING OUTCOMES

1. Qualify to take the PCA licensing exams from the California Department of Pesticide Regulation, including Laws and Regulations, and the specific license categories of A) insect, mites, and other invertebrates B) plant pathogens

C) nematodes D) vertebrate pests E) weeds F) defoliation and G) plant growth regulators.
2. Explain and apply basic principles of soils, cation exchange capacity, entomology, epidemiology, and botany to agricultural practices and pesticide modes of action.
3. Correctly identify the causal agents for pest infestations and disease infections in agricultural settings, and suggest effective control strategies that include biological control, cultural control, mechanical control and chemical control methods, in this order.
4. Read and interpret any pesticide label, and recommend legal, safe and appropriate application of that chemical.

PEST CONTROL ADVISER REQUIREMENTS - COMPLETE 42.0 UNITS

Complete any combination totaling at least 12.0 units from the following:

Physical & Biological Sciences

AGRI 10	Introduction to Agricultural Sciences	3.0
BIO 2.1	Fundamentals of Biology (Cell and Molecular)	5.0
BIO 2.3	Fundamentals of Biology (Botany and Ecology)	5.0
BIO 10	Introduction to Principles of Biology	4.0
BIO 12	Basic Concepts of Ecology	3.0
BOTANY 10	Plant Biology	4.0
BOTANY 60	Field Botany	4.0
CHEM 1A	General Chemistry	5.0
CHEM 1B	General Chemistry	5.0
CHEM 8	Introductory Organic Chemistry	5.0
CHEM 12A	Organic Chemistry	5.0
CHEM 12B	Organic Chemistry	5.0
CHEM 42	Introductory General Chemistry	4.0
ENVS 12	Introduction to Environmental Science	3.0
EQSCI 52	Equine Health	3.0
MICRO 5	General Microbiology	5.0
MICRO 60	Fundamentals of Microbiology	4.0
NRM 12	Introduction to Environmental Conservation	3.0

Complete any combination totaling at least 9.0 units from the following:

Crop Health

AGRI 20	Introduction to Plant Science	3.0
AGRI 60	Soil & Plant Nutrition	3.0
HORT 144	Landscape Irrigation	3.0
SUSAG 64	Warm Season Vegetable Production	2.0
SUSAG 65	Cool Season Vegetable Production	2.0

SUSAG 103	Composting for Commercial Organic Farming and Gardening	1.0
VIT 124	Vineyard Irrigation and Fertilization	1.0

Complete any combination totaling at least 6.0 units from the following:

Pest Management Systems & Methods

AGRI 70	Integrated Pest Management	3.0
SUSAG 50	Introduction to Sustainable Agriculture	3.0
VIT 70	Vineyard Pest and Disease Management	3.0
VIT 132	Advances in Vineyard Integrated Pest and Disease Management	0.5

Complete any combination totaling at least 6.0 units from the following:

Production Systems

ANSCI 20	Basic Animal Science	3.0
ANSCI 27	Beef Cattle Science	3.0
ANSCI 29	Dairy Cattle Industry/Dairy Cattle Science	3.0
ANSCI 61	Livestock Feeding and Nutrition	3.0
ANSCI 91	Rangeland Management	3.0
ANSCI 153	Sustainable Agriculture Production Systems with Animals	3.0
ANSCI 171	Livestock Behavior and Humane Management	1.0
EQSCI 25	Equine Science	3.0
EQSCI 51	Equine Nutrition	1.0
HORT 8	Landscape Plants: Summer/Fall	3.0
HORT 12	Landscape Plants: Winter/Spring	3.0
HORT 70	Plant Propagation	3.0
HORT 71	Nursery Production	3.0
HORT 72	Greenhouse Production	3.0
HORT 80	Landscape Maintenance	3.0
NRM 70	Forest Management and Assessment	4.0
SUSAG 109	Organic Crop Planning and Production	4.0
SUSAG 116	Organic Apple Production	1.0
SUSAG 117	Organic Fruit Tree and Berry Production	1.5
SUSAG 118	Olive Oil Production, Processing & Sensory Evaluation	1.0
SUSAG 119	Specialty Crop Production	2.0
VIT 51	Viticulture: Fall Practices	3.0

VIT 52	Viticulture: Spring Practices	3.0
VIT 53	Advanced Vineyard Practices for Quality Production	3.0
VIT 54	Viticulture: Summer Practices	1.0
VIT 55	Basic Wine Grape Viticulture	3.0
VIT 60	Vineyard Management	3.0
VIT 113	Organic Viticulture	1.5
VIT 114	Sustainable Viticulture	1.5
VIT 122	Vineyard Canopy Management	1.0
VIT 123	Spring Budding & Grafting	0.5
VIT 130	Grapevine Physiology	1.0
VIT 132	Advances in Vineyard Integrated Pest and Disease Management	0.5
VIT 133	Advances in Viticulture	1.0

Complete any combination totaling at least 9.0 units from the following:

Pest Control Adviser Electives

AGRI 20	Introduction to Plant Science	3.0
AGRI 60	Soil & Plant Nutrition	3.0
AGRI 70	Integrated Pest Management	3.0
ANSCI 20	Basic Animal Science	3.0
ANSCI 27	Beef Cattle Science	3.0
ANSCI 29	Dairy Cattle Industry/Dairy Cattle Science	3.0
ANSCI 61	Livestock Feeding and Nutrition	3.0
ANSCI 91	Rangeland Management	3.0
ANSCI 153	Sustainable Agriculture Production Systems with Animals	3.0
ANSCI 171	Livestock Behavior and Humane Management	1.0
EQSCI 25	Equine Science	3.0
EQSCI 51	Equine Nutrition	1.0
HORT 8	Landscape Plants: Summer/Fall	3.0
HORT 12	Landscape Plants: Winter/Spring	3.0
HORT 50.1	Introduction to Horticultural Science	1.5
HORT 70	Plant Propagation	3.0
HORT 71	Nursery Production	3.0
HORT 72	Greenhouse Production	3.0
HORT 80	Landscape Maintenance	3.0
HORT 144	Landscape Irrigation	3.0
SUSAG 50	Introduction to Sustainable Agriculture	3.0
SUSAG 109	Organic Crop Planning and Production	4.0
SUSAG 116	Organic Apple Production	1.0

SUSAG 117	Organic Fruit Tree and Berry Production	1.5
SUSAG 118	Olive Oil Production, Processing & Sensory Evaluation	1.0
SUSAG 119	Specialty Crop Production	2.0
VIT 51	Viticulture: Fall Practices	3.0
VIT 52	Viticulture: Spring Practices	3.0
VIT 53	Advanced Vineyard Practices for Quality Production	3.0
VIT 54	Viticulture: Summer Practices	1.0
VIT 55	Basic Wine Grape Viticulture	3.0
VIT 60	Vineyard Management	3.0
VIT 70	Vineyard Pest and Disease Management	3.0
VIT 113	Organic Viticulture	1.5
VIT 114	Sustainable Viticulture	1.5
VIT 122	Vineyard Canopy Management	1.0
VIT 123	Spring Budding & Grafting	0.5
VIT 130	Grapevine Physiology	1.0
VIT 132	Advances in Vineyard Integrated Pest and Disease Management	0.5
VIT 133	Advances in Viticulture	1.0

NOTES:

Elective units may not be double-counted towards requirements

PHARMACY TECHNICIAN

Program of Study Code: 003251

Term Effective: Fall 2019

47.00 Units

(707) 521-7906

adeen@santarosa.edu (mailto:adeen@santarosa.edu)

PROGRAM REQUIREMENTS:

The Pharmacy Technician Certificate of Achievement prepares students to be registered pharmacy technicians and for employment in a variety of pharmacy settings. Upon successful completion of the program, students are qualified to apply to the California State Board of Pharmacy for registration as a pharmacy technician. Registration is a legal requirement for employment. Graduates of the certificate program are also encouraged to sit for the National Pharmacy Technician Certification Exam. While not currently a state requirement for employment, many employers provide increased compensation to pharmacy technicians once they become nationally certified.

PROGRAM STUDENT LEARNING OUTCOMES

1. Pharmacologically classify a drug after having been presented with its generic name, brand (trade) name, chemical name and indication;
2. interpret current federal and state legislation and name the agencies regulating the practice of pharmacy;
3. create patient profiles utilizing information obtained from the prescription and the patient;
4. read and write proper medical notation on the drug order and interpret information on drug labels and stock bottles;
5. calculate the oral dosages of drugs, both solid and liquid forms based on currently accepted pharmaceutical mathematics;
6. describe the pharmacological action, therapeutic effects, common side effects, doses and drug interactions of common medications prescribed to treat dysfunction of selected body systems; and
7. describe common pharmaceutical measuring, weighing and compounding devices and accurately use the metric, apothecary, avoirdupois and household systems to count and measure.

PHARMACY TECHNICIAN REQUIREMENTS - COMPLETE 21.0 UNITS

PHARM 102	Pharmaceutical Calculations for the Pharmacy Technician	2.0
PHARM 103	Critical Thinking and Management Skills for the PT	2.0
PHARM 150	Introduction to Pharmacy Technician	3.0
PHARM 152	Ambulatory Pharmacy Practice	2.0
PHARM 154A	Retail Clinical 1	1.0
PHARM 154B	Retail Clinical 2	3.0
PHARM 155	Pharmacology	4.0
PHARM 156	Dispensing and Compounding	3.0
PHARM 157	Hospital Pharmacy Practice for the Pharmacy Technician	0.5
PHARM 157L	Hospital Pharmacy Clinical Experience	0.5

NOTES:

Licensure Note: The California State Board of Pharmacy may deny licensure for felony or misdemeanor offences. It is the responsibility of the student to present sufficient evidence of rehabilitation prior to licensure and/or secure a pre-application process with the Board, independent to the program admission application.

Other Notes:

- All courses must be completed with a "C" or better.
- PHARM 150 (delivered online) is only offered in the Summer semester and it is suggested that students take CSKLS 334- How to Take an Online Class, before enrolling for PHARM 150.

PROBATION OFFICER BASIC COURSE

Program of Study Code: 005052

Term Effective: Fall 2018

5.50 Units

(707) 836-2912

achapman@santarosa.edu (mailto:achapman@santarosa.edu)

PROGRAM REQUIREMENTS:

This single-course Skills Certificate will identify and specify the training necessary for entry level probation officers who have no prior training or experience in the correctional field. Issues addressed will consist of those knowledge and skills which are essential for the newly hired probation officer to meet minimum performance standards for entry level personnel and to obtain maximum benefit from subsequent on-the-job training experience. The student will be introduced to the adult/juvenile court systems and processes which will cover court reports, writing initial violator reports, case information gathering, conducting interviews and assessments. The student will also be introduced to crisis intervention counseling.

PROGRAM STUDENT LEARNING OUTCOMES

1. Student will be able to identify and demonstrate major tasks and responsibilities of a probation officer in the State of California as defined in a periodic statewide job analysis;
2. student will identify and describe the overall mission of a probation officer and its place in the California justice system as established in California law

PROBATION OFFICER BASIC COURSE REQUIREMENTS - COMPLETE 5.5 UNITS

AJ 365	Probation Officer	5.5

PUBLIC SAFETY DISPATCHER BASIC COURSE

Program of Study Code: 005038

Term Effective: Fall 2011

2.00 Units

(707) 836-2909

carnold@santarosa.edu (mailto:carnold@santarosa.edu)

PROGRAM REQUIREMENTS:

The Public Safety Dispatcher Skills Certificate covers the training necessary for entry level public safety dispatchers who have no prior training or limited experience in the area of dispatching. Issues addressed consist of knowledge and skills necessary for dispatchers to meet minimum performance standards for entry level positions. The student will be introduced to the criminal justice system, the laws as they pertain to dispatchers and public safety, communication theory, telephone procedures, radio procedures, resource and referral services, critical incidents, and stress management.

PROGRAM STUDENT LEARNING OUTCOMES

1. Meet the minimum standards set by the California Commission on Peace Officer Standards and Training (POST) for entry into a public safety agency as a public safety dispatcher;
2. identify the basic roles, responsibilities, and duties of the public safety dispatcher within the public safety agency;
3. demonstrate the practical application of the public safety dispatcher skills; and
4. apply the skills and knowledge necessary to work in a public safety communications center in a productive and professional manner.

PUBLIC SAFETY DISPATCHER REQUIREMENTS - COMPLETE 2.0 UNITS

AJ 353	Public Safety Dispatcher Basic Course	2.0

RADIOLOGIC TECHNOLOGY

Program of Study Code: 003059

Term Effective: Fall 2019

93.00 Units

(707) 527-4630

talander@santarosa.edu (mailto:talander@santarosa.edu)

PROGRAM REQUIREMENTS:

The Radiologic Technology Certificate of Achievement provides training in the operation of X-ray and computer equipment, performance of radiological procedures, creating and processing radiographs, experience in other advanced imaging modalities, and radiation protection. A minimum of 1,850 clinical hours is required in hospitals and radiology departments affiliated with Santa Rosa Junior College. Elective clinical experience in other modalities is available. The SRJC program, accredited by the Joint Review Committee on Education in Radiologic Technology, is approved by the California State Department of Public Health - Radiologic Health Branch. Upon successful program completion, eligible graduates (contact individual health care agencies for specific criteria and pre-application review process) will be allowed to sit for examinations administered by the American Registry of Radiologic Technologists and the California State Department of Public Health - Radiologic Health Branch.

PROGRAM STUDENT LEARNING OUTCOMES

1. Deliver high quality services in Radiology;
2. observe a high level of medical ethics;
3. perform radiographic job duties with professionalism;
4. use effective communication skills;
5. use critical thinking skills to analyze and resolve imaging issues; and
6. demonstrate clinical competency of an entry-level technologist.

PROGRAM SELECTION PROCESS:

Applicants who have completed all of the program prerequisites by the deadline of the application year will be qualified for the lottery selection process. Please contact the Health Science Department for information about entering the program.

RADIOLOGIC TECHNOLOGY PREREQUISITES - COMPLETE 28.0 UNITS

CI 54	Community Engagement Related to Health Care	3.0
CS 5	Computer Literacy	3.0
HLC 160	Medical Terminology	3.0
RADT 100	Survey of Medical Imaging	2.0
ENGL 1A	Reading & Composition	4.0

Complete any combination totaling at least 3.0 units from the following:

ANAT 1	General Human Anatomy	5.0
ANAT 58	Introduction to Human Anatomy	3.0

Complete any combination totaling at least 3.0 units from the following:

PHYSIO 1	Human Physiology	5.0
PHYSIO 58	Introduction to Human Physiology	3.0

Complete any combination totaling at least 3.0 units from the following:

COMM 7	Intercultural Communication	3.0
COMM 1	Introduction to Public Speaking	3.0
And		
HIST 21	Race, Ethnicity and Gender in American Culture	3.0
or		
COMM 1	Introduction to Public Speaking	3.0
And		
HUMAN 6	American Cultures	3.0
or		
COMM 1	Introduction to Public Speaking	3.0
And		
PSYCH 34	The Psychology of Prejudice and Discrimination	3.0
or		
COMM 1	Introduction to Public Speaking	3.0
And		
SOC 30	Race and Ethnic Relations	3.0
or		
COMM 6	Interpersonal Communication	3.0
And		
HIST 21	Race, Ethnicity and Gender in American Culture	3.0
or		
COMM 6	Interpersonal Communication	3.0

And		
HUMAN 6	Humanities in the United States	3.0
or		
COMM 6	Interpersonal Communication	3.0
And		
PSYCH 34	The Psychology of Prejudice and Discrimination	3.0
or		
COMM 6	Interpersonal Communication	3.0
And		
SOC 30	Race and Ethnic Relations	3.0
or		
COMM 60	Communication Skills	3.0
And		
HIST 21	Race, Ethnicity and Gender in American Culture	3.0
or		
COMM 60	Communication Skills	3.0
And		
HUMAN 6	Humanities in the United States	3.0
or		
COMM 60	Communication Skills	3.0
And		
PSYCH 34	The Psychology of Prejudice and Discrimination	3.0
or		
COMM 60	Communication Skills	3.0
And		
SOC 30	Race and Ethnic Relations	3.0

Complete any combination totaling at least 3.0 units from the following:

MATH 101	Mathematics for the Associate Degree	3.0
MATH 154	Elementary and Intermediate Algebra	8.0
MATH 155	Intermediate Algebra	4.0
MATH 156	Intermediate Algebra for Business and STEM Majors	5.0
MATH 161	Mathematics Preparation for Statistics and Liberal Arts	4.0
PSYCH 9	Introduction to Behavioral Sciences Statistics	3.0

Any higher level (https://mathematics.santarosa.edu/sites/mathematics.santarosa.edu/files/Math%20Sequence%20Chart_2017_18_A math course will satisfy requirement

Complete any combination totaling at least 3.0 units from the following:

PSYCH 1A	General Psychology	3.0
PSYCH 30	Social Psychology	3.0
PSYCH 52	Interpersonal Relations	3.0

RADIOLOGIC TECHNOLOGY REQUIREMENTS - COMPLETE 65.0 UNITS

RADT 60	Introduction to Radiologic Technology	3.0
RADT 61A	Radiographic Positioning 1	4.0
RADT 61B	Radiographic Positioning 2	3.0
RADT 61C	Radiographic Positioning 3	1.0
RADT 63A	Radiation Physics and Medical Imaging Systems	3.0
RADT 63B	Radiobiology Radiation Protection, and Quality Control	3.0
RADT 64	Patient Care in Radiology	3.0
RADT 64L	Patient Care in Radiology Laboratory	2.0
RADT 65	Pathology in Radiology	2.0
RADT 66	Special Modalities	4.0
RADT 68	Preparation for Professional Practice	3.0
RADT 71A	Clinical Experience 1	4.5
RADT 71B	Clinical Experience 2	6.0
RADT 71C	Clinical Experience 3	2.5
RADT 71D	Clinical Experience 4	8.5
RADT 71E	Clinical Experience 5	8.5
RADT 71F	Clinical Experience 6	4.0

PROGRAM REQUIREMENTS NOTES:

Program prerequisites are put in place by external accreditation and regulatory agencies and are not subject to catalog rights. Starting Fall 2009, only college transferable reading and composition courses (English 1A or equivalent) will be accepted to fulfill the English prerequisite requirement. Completion of all prerequisites must show on official transcripts. Listing of articulated classes are available for review: Articulation Agreements **(https://articulation.santarosa.edu/california-community-colleges).** **(https://articulation.santarosa.edu/california-community-colleges)**

Starting in 2015, the American Registry of Radiologic Technologists will require an Associate Degree as eligibility to sit for the licensing examination. Therefore, the SRJC Radiologic Technology Program strongly urges all applicants who do not possess an Associate Degree or higher, to complete all of the general education requirements for an Associate of Science degree prior to admission to the program in Fall 2013. The program prerequisites only fulfill the graduation requirements in areas A, B, C, D, and G for students using the Option A General Education Pattern.

Recency: applies to Anatomy and Medical Terminology only. Beginning with the application cycle for students targeting Fall 2019 and subsequent admission years, recency will no longer be required for Intermediate Algebra or Physiology

NOTES:

Accepted students must successfully pass a criminal background check (paid by students) that will require social security numbers.

All program classes and prerequisites taken in conjunction with this program must be completed with a letter grade of 'C' or better.

For students interested in pursuing mammography we offer RADT 102 - Mammography for Radiologic Technology

RANGER ACADEMY

Program of Study Code: 005050

Term Effective: Fall 2019

17.50 Units

(707) 836-2914

bmarvin@santarosa.edu (mailto:bmarvin@santarosa.edu)

PROGRAM REQUIREMENTS:

The Ranger Academy Certificate of Achievement prepares the student to work in a national park, wildlife refuge or other recreation area as a law enforcement officer. Santa Rosa Junior College is authorized by the U.S. Department of the Interior/National Park Service to issue this certificate. Individuals who complete the program and receive the certificate may obtain a commission authorizing employment as a Seasonal Law Enforcement Ranger from the U.S. Department of the Interior/National Park Service.

PROGRAM STUDENT LEARNING OUTCOMES

1. Identify, define and demonstrate basic tasks of peace officers;
2. identify, classify, and apply appropriate provisions of federal and state law related to peace officers;
3. perform and document complete preliminary investigations assigned to peace officers; and
4. demonstrate the physical skills needed to perform the tasks of a peace officer in the areas of driving, shooting and defensive tactics.

RANGER ACADEMY REQUIREMENTS - COMPLETE 17.5 UNITS

AJ 203A	Ranger Academy Orientation	0.3
AJ 203B	Ranger Academy	17.3

SOLAR PHOTOVOLTAICS

Program of Study Code: 003334

Term Effective: Fall 2017

17.00 Units

(707) 527-4603

mpapa@santarosa.edu (mailto:mpapa@santarosa.edu)

PROGRAM REQUIREMENTS:

The Solar Photovoltaics Certificate of Achievement prepares the student for work in the residential and commercial solar industry. This program emphasizes the integration of practical and theoretical knowledge in photovoltaic technologies so that the student can advance in this fast-evolving field.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply the knowledge of photovoltaic module characteristics, specifications, and response to the sun to photovoltaic system design and installation;
2. conduct a solar site evaluation for installation of a photovoltaic system;
3. optimally size utility interactive and off-grid photovoltaic systems to electrical demand;
4. perform a basic NEC code compliant PV array installation;and
5. work safely with photovoltaics.

SOLAR PHOTOVOLTAICS REQUIREMENTS - COMPLETE 17.0 UNITS

CONS 62	Blueprint Reading and Construction Graphics	3.0
CONS 183	OSHA 10	1.0
ELEC 51A	Fundamentals of Electricity	3.0
ELEC 156	Photovoltaic Systems Design and Installation	3.0
ELEC 157	Advanced Photovoltaic Systems	2.0

Complete any combination totaling at least 5.0 units from the following:

APTECH 45	Basic Drafting Skills	1.5
APTECH 46	Introduction to Computer-Aided Drafting	2.0
APTECH 57	Advanced AutoCAD	3.0
BMK 50	Marketing	3.0
BMK 51	Principles of Selling	3.0
CONS 70A	Introduction to Project Organization and Management	1.5
ENVS 12	Introduction to Environmental Science	3.0
WEOC 99I	Occupational Work Experience Internship	8.0

NOTES:

WEOC 99I may be taken from .50 - 5.00 units

This program is NOT yet approved for federal financial aid.

SURVEYING TECHNOLOGY

Program of Study Code: 003268

Term Effective: Fall 2017

25.50 Units

(707) 527-4603

rparks@santarosa.edu (mailto:rparks@santarosa.edu)

PROGRAM REQUIREMENTS:

The Surveying Technology Certificate of Achievement prepares students for a variety of technical positions in the surveying and mapping professions. The program recommended course sequence is set up to allow the student to progress through four semesters and achieve a Certificate of Achievement or an Associate's Degree. This program also prepares students to transfer to university to further their studies in surveying or geomatics.

PROGRAM STUDENT LEARNING OUTCOMES

1. Define and describe land surveying terminology, methods, procedures, standards and technology;
2. perform mathematical, computer and statistical computations related to location, elevation, grade, distance, direction, area, and volume;
3. communicate clearly and effectively in oral, written and graphic formats;
4. prepare land surveying maps, plats, documents and drawings using computer-aided drafting and geographic information systems technology;
5. operate terrestrial and global positioning surveying instruments for various types of surveys; and
6. research, file, retrieve, analyze, locate and prepare descriptions of land, drawings, maps, plats, documents, records, reports and correspondence related to land surveying.

SURVEYING TECHNOLOGY CORE REQUIREMENTS - COMPLETE 25.5 UNITS

GIS 40	Introduction to Geographic Information Systems (GIS)	3.0
APTECH 191	Problem Solving in Civil Engineering Technology	3.0
CEST 51	Civil Drafting Technology	3.0
CEST 192	Non-Technical Skills for the Civil Engineering Technician	1.5
SURV 53	Route Surveying & Design	4.0
SURV 56	Introduction to GPS Land Surveying	4.0
SURV 58	Evidence and Procedures for Boundary Determination	3.0
SURV 60	Introduction to Plane Surveying	4.0

NOTES:

It is recommended that students who have not had high school courses in mathematics through plane geometry take the Math placement test and enroll in an appropriate course (eg, CSKLS 371, CSKLS 372, MATH 150A & B, or MATH 151) prior to enrolling in certificate program courses.

For students with limited computer literacy, CS 101A or CS 101B is recommended. Please contact the department or a counselor for more information.

This program was formerly named "Civil & Surveying Technology: Surveying"

SUSTAINABLE AGRICULTURE

Program of Study Code: 003205

Term Effective: Fall 2017

25.00 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Sustainable Agriculture Certificate of Achievement program is designed to train farmers and gardeners in the techniques of sustainable food production. It provides a foundation in plant and soil science, integrated pest management, and ecological agriculture, and emphasizes the "how-to" aspects of organic gardening and farming, including tillage, compost production, and crop planning and production.

PROGRAM STUDENT LEARNING OUTCOMES

1. Plan and manage diverse crop farming enterprises based on ecological management practices.
2. Apply scientific literacy to the management of agricultural systems.
3. Identify and pursue appropriate market channels for vegetable and fruit crops.
4. Utilize appropriate tools and techniques for the propagation, maintenance, and harvest of organically grown crops.

SUSTAINABLE AGRICULTURE REQUIREMENTS - COMPLETE 25.0 UNITS

AGMEC 50	Agricultural Machinery and Equipment Skills	3.0
AGRI 20	Introduction to Plant Science	3.0
AGRI 60	Soil & Plant Nutrition	3.0
AGRI 70	Integrated Pest Management	3.0
SUSAG 50	Introduction to Sustainable Agriculture	3.0
SUSAG 160	Direct Farm Marketing	2.0
SUSAG 109	Organic Crop Planning and Production	4.0

Complete any combination totaling at least 4.0 units from the following:

AGRI 56	Agricultural Enterprise Project	4.0
AGRI 98	Independent Study in Agriculture	3.0
ANSCI 153	Sustainable Agriculture Production Systems with Animals	3.0
SUSAG 64		

Warm Season Vegetable Production		2.0
SUSAG 65	Cool Season Vegetable Production	2.0
SUSAG 103	Composting for Commercial Organic Farming and Gardening	1.0
SUSAG 116	Organic Apple Production	1.0
SUSAG 117	Organic Fruit Tree & Berry Production	1.5
SUSAG 118	Olive Oil Production, Processing & Sensory Evaluation	1.0
SUSAG 119	Specialty Crop Production	2.0
SUSAG 120	Organic Gardening and Food Production	2.0
SUSAG 153	Community Supported Agriculture	3.0
SUSAG 163	Community Supported Agriculture Summer	2.0

NOTES:

The Certificate of Achievement will be awarded upon completion of all requirements with a grade of "C" or better.

THEATRE ARTS: ACTING

Program of Study Code: 003107

Term Effective: Fall 2017

29.50 Units

(707) 527-4248

lmccauley@santarosa.edu (mailto:lmccauley@santarosa.edu)

PROGRAM REQUIREMENTS:

The Theatre Arts: Acting Certificate of Achievement provides students with the foundation skills necessary to audition for and perform in a variety of professional environments. Students study characterization, script analysis, vocal and physical development, and acting styles for the stage, which can also be applied to film and television work.

PROGRAM STUDENT LEARNING OUTCOMES

1. Audition for a production using fundamental techniques of voice, movement, and the actor's craft;
2. perform for the stage using fundamental techniques of voice, movement, and the actor's craft;
3. perform special acting styles such as: non-realism, Shakespeare, period movement and acting for the camera;
4. integrate a basic understanding of technical theatre and participate in the backstage functions of the theatre; and
5. integrate knowledge of theatre history and literature when creating a theatrical performance.

THEATRE ARTS CORE REQUIREMENTS - COMPLETE 6.0 UNITS

THAR 1	World Theatre Through Time	3.0
THAR 10A	Introduction to Acting	3.0

ACTING EMPHASIS REQUIREMENTS - COMPLETE 23.5 UNITS

THAR 10B	Scene Study and Characterization	3.0
THAR 19	Movement & Improvisation	2.0
THAR 20	Introduction to Stagecraft	3.0

Complete any combination totaling at least 3.0 units from the following:

THAR 25.1	Production Lab: Costume Crew	3.0
THAR 25.2	Production Lab: Running Crew	3.0
THAR 25.4	Production Lab: Makeup Crew	3.0

Complete any combination totaling at least 3.0 units from the following:

THAR 11.1	Performance: Non-Musical	3.0
THAR 11.2	Performance: Musical	3.0
THAR 11.3	Performance: Musical - Dance	2.0
THAR 11.4	Performance: Musical-Vocal	2.0
THAR 81A	Opera and Related Forms in Performance 1	5.0

Complete any combination totaling at least 3.5 units from the following:

THAR 13.1A	Performance Workshop: Styles, Periods and Skills I	3.0
THAR13.1AL	Performance Workshop Lab: Styles, Periods and Skills I	0.5
THAR 13.2A	Performance Workshop: Shakespeare I	3.0
THAR13.2AL	Performance Workshop Lab: Shakespeare I	0.5

Complete any combination totaling at least 6.0 units from the following:

DANCE 10.1	Introduction to Dance Movement	1.5
DANCE 10.2	Introduction to Dance Genres: Ballet, Modern, Jazz	1.5
DANCE 11.1	Ballet I	1.5
DANCE 13.1	Jazz Dance I	1.5
MUSCP 17A	Elementary Voice	2.0
THAR 11.8	Performance: Dance Concert	1.0
THAR 17	Musical Theatre Techniques	3.0
THAR 21A	Introduction to Costume Tech	3.0
THAR 22	Theatrical Makeup Design for Stage and Screen	2.0
THAR 42	Dance-Theatre Workshop	2.0
THAR 50	Introduction to Theatre Management	3.0
THAR 50L	Theatre Management Laboratory	3.0

THAR 63	Acting in Film, Television and Voice-over	3.0

NOTES:

1. All students enrolled in the certificate program will be assigned a faculty advisor who will meet with them regularly to monitor progress.
2. All courses in the THAR 25 series (THAR 25, 25.1, 25.2, 25.3, 25.4, and 25.5) are variable unit courses; each course may be taken up to four times. Units are determined by the type of position and number of productions a student will work on during a semester. These courses are also corequisites for THAR 20, 21A, 22, and 22.1. Certificate students planning to take these courses are encouraged to contact the Theatre Arts department chair prior to registration.

THEATRE ARTS: COSTUMING

Program of Study Code: 003108

Term Effective: Fall 2017

32.00 Units

(707) 527-4268

mscozzari@santarosa.edu (mailto:mscozzari@santarosa.edu)

PROGRAM REQUIREMENTS:

The Theatre Arts: Costuming Certificate of Achievement prepares students for entry level and apprentice employment as professional costume shop assistants, wardrobe supervisors, cutter/drapers, first hands, dyers/painters, dressers, and costume crafts positions in the stage, film or television environments. The program provides a hands-on approach to the study of equipment, terminology, and technical skills required to create costumes for dramatic productions. It includes an understanding of basic drawing, patterning, draping, and construction techniques necessary for realizing a costume design.

PROGRAM STUDENT LEARNING OUTCOMES

1. Work effectively with common materials, equipment, and techniques when constructing theatrical costumes and accessories;
2. Apply fundamental techniques of wardrobe management when participating in the backstage functions of a performance;
3. Demonstrate basic skills in one or more of the following areas of specialization:

- wardrobe maintenance
- safe application and use of shop equipment and tools
- fabric composition and modification
- draping
- flat pattern drafting and manipulation
- costume construction and dressmaker details
- fittings and alterations
- millinery techniques

- understructures
- tailoring techniques
- footwear
- masks
- armor
- jewelry
- makeup and hair design;

4. Work collaboratively with other theater professionals and contribute basic artistic knowledge of Costume and Makeup Design;
5. Integrate knowledge of theatre history and literature when constructing theatrical elements; and
6. Perform for the stage at a beginning level using fundamental techniques of voice, movement, and the actor's craft.

THEATRE ARTS CORE REQUIREMENTS - COMPLETE 6.0 UNITS

THAR 1	World Theatre Through Time	3.0
THAR 10A	Introduction to Acting	3.0

COSTUMING EMPHASIS REQUIREMENTS - COMPLETE 26.0 UNITS

THAR 21A	Introduction to Costume Tech	3.0
THAR 22	Theatrical Makeup Design for Stage and Screen	2.0
THAR 24	Design Workshop	3.0
THAR 25.1	Production Lab: Costume Crew	3.0
THAR 25.4	Production Lab: Makeup Crew	3.0

Complete any combination totaling at least 9.0 units from the following:

THAR 21B	Costume Technology II	3.0
THAR 22.1	Special Effects Makeup, Wigs, and Masks	2.0
THAR 25.1	Production Lab: Costume Crew	3.0
THAR 25.5	Production Lab: Construction	3.0
THAR 27	Properties Workshop	2.0
THAR 28	Introduction to Costume Design	3.0
THAR 121.1	Stage Costuming: Introduction to Historical Draping	3.0
THAR 121.2	Stage Costuming: Introduction to Millinery	3.0
THAR 121.3	Stage Costuming: Period Corset Construction	3.0
THAR 121.4	Stage Costuming: Tailoring Techniques	3.0

Complete any combination totaling at least 6.0 units from the following:

THAR 22.2	Special Effects Makeup, Wigs, and Masks II	2.0
THAR 25	Production Lab: General	3.0
THAR 25.4	Production Lab: Makeup Crew	3.0
THAR 127.4	Properties Workshop: Weaponry and Specialty Items	2.0

NOTES:

1. All students enrolled in the certificate program will be assigned a faculty advisor who will meet with them regularly to monitor progress.
2. All courses in the THAR 25 series (THAR 25.1, 25.4, 25.5) are variable unit courses; each course may be taken up to four times. The type of position and number of productions a student will work on during a semester determines the number of units.
   These courses are also corequisites for THAR 20, 21A, 22, and 22.1. Certificate students planning to take these courses are encouraged to contact the Theatre Arts department chair prior to registration.

THEATRE ARTS: MAKEUP DESIGN

Program of Study Code: 003109

Term Effective: Fall 2017

30.00 Units

(707) 527-4268

mscozzari@santarosa.edu (mailto:mscozzari@santarosa.edu)

PROGRAM REQUIREMENTS:

The Theatre Arts: Makeup Certificate of Achievement program prepares students for entry level and apprentice employment as a professional makeup artist, for the stage, film or television environments. The program focuses on a hands-on approach to the study of materials, terminology, health and safety issues, and technical skills required for dramatic productions.

PROGRAM STUDENT LEARNING OUTCOMES

1. Analyze and interpret appropriate styles, color, and texture choices for a scripted character;
2. apply fundamental techniques of makeup and hair application when participating in the backstage functions of a performance;
3. demonstrate basic skills in one or more of the following areas of specialization:

- appropriate skin care analysis
- creation of character makeup by application of highlight and lowlight painting techniques
- three-dimensional prosthetic techniques
- facial hair application
- wig and hair styling;

4. work collaboratively with other theater professionals and contribute basic artistic knowledge of Costume and Makeup Design;
5. integrate knowledge of theatre history and literature when designing and/or applying stage makeup; and
6. perform for the stage at a beginning level using fundamental techniques of voice, movement, and the actor's craft.

THEATRE ARTS MAKEUP DESIGN CORE REQUIREMENTS - COMPLETE 6.0 UNITS

THAR 2	Introduction to Theatre Arts	3.0

THAR 24	Introduction to the Design Process	3.0

MAKEUP DESIGN EMPHASIS REQUIREMENTS - COMPLETE 24.0 UNITS

THAR 21A	Introduction to Costume Tech	3.0
THAR 22	Theatrical Makeup Design for Stage and Screen	2.0
THAR 22.1	Special Effects Makeup, Wigs, and Masks	2.0
THAR 22.2	Special Effects Makeup, Wigs, and Masks II	2.0
THAR 25.1	Production Lab: Costume Crew	3.0
THAR 25.4	Production Lab: Makeup Crew	3.0

Complete any combination totaling at least 12.0 units from the following:

ART 7A	Drawing and Composition 1	3.0
ART 12	Beginning Figure Drawing	3.0
ART 13	Watercolor	3.0
FASH 53	Fashion Analysis	3.0
THAR 1	World Theatre Through Time	3.0
THAR 10A	Introduction to Acting	3.0
THAR 21B	Costume Technology II	3.0
THAR 25	Production Lab: General	3.0
THAR 25.4	Production Lab: Makeup Crew	3.0
THAR 26	Introduction to Theatrical Lighting	3.0
THAR 27	Properties Workshop	2.0
THAR 28	Introduction to Costume Design	3.0
THAR 121.2	Stage Costuming: Introduction to Millinery	3.0
THAR 127.2	Properties Workshop: Mold Making and Casting	2.0

NOTES:

1. All students enrolled in the certificate program will be assigned a faculty advisor who will meet with them regularly to monitor progress.

2. All courses in the THAR 25 series (THAR 25, 25.1, 25.2, 25.3, 25.4, and 25.5) are variable unit courses; each course may be taken up to four times. The type of position and number of productions a student will work on during a semester determines the number of units. These courses are also corequisites for THAR 20, 21A, and 22. Certificate students planning to take these courses are encouraged to contact the Theatre Arts department chair prior to registration.

THEATRE ARTS: REPERTORY THEATRE

Program of Study Code: 003352

Term Effective: Summer 2019

12.00 Units

(707) 527-4221

jnewman@santarosa.edu (mailto:jnewman@santarosa.edu)

PROGRAM REQUIREMENTS:

The Theatre Arts: Repertory Theatre Certificate of Achievement is designed for individuals who are interested in learning the professional skills required to work in the regional theatre, summer stock, and national tours. This 12 unit program prepares students to work on multiple shows at a time as a stagehand/running crew, wardrobe assistant, production assistant or ensemble actor. The full-time student can complete this program in one semester. Regional theatres, summer stock companies, and national tours require professionals who understand how to work in fast-paced, intensive, creative environment. This program requires students to put theory to the test and work continuously under the professional repertory theatre system. Seasonal or full-time jobs are plentiful throughout the country. Students receive the technical training they need to qualify for entry-level jobs in this filed. Successful completion of this certificate also proves to prospective employers that students have the experience they are looking for.

PROGRAM STUDENT LEARNING OUTCOMES

1. Develop self-awareness and confidence through creative expression;
2. collaborate and effectively communicate in a theatre setting;
3. demonstrate an understanding of time management, commitment, follow-through, and responsibility to achieve a common goal in a theatre setting;
4. creatively analyze, critique, and interpret works of theatrical art;
5. identify, summarize, compare and contrast the principal movements in World theatre history and literature;
6. serve in a production position to gain understanding of the collaborative and complex nature of a live performance;
7. demonstrate an understanding of and empathy for the racial, ethnic, and cultural diversity of U.S. and World theatre; and
8. utilize current theatrical technology.

THEATRE ARTS: REPERTORY THEATRE - COMPLETE 12.0 UNITS

SRT 47	Summer Repertory Theatre - Repertory Company	6.0

Complete any combination totaling at least 6.0 units from the following:

SRT 47.1	Summer Repertory Theatre - Ensemble Acting	6.0
SRT 47.2	Summer Repertory Theatre - Stagecraft	6.0
SRT 47.3	Summer Repertory Theatre - Costumes, Makeup and Hair	6.0
SRT 47.4	Summer Repertory Theatre - Theatre Orchestra	6.0
SRT 47.5	Summer Repertory Theatre - Theatre Management	6.0

THEATRE ARTS: STAGECRAFT

Program of Study Code: 003110

Term Effective: Fall 2019

32.50 Units

(707) 527-4268

mscozzari@santarosa.edu (mailto:mscozzari@santarosa.edu)

PROGRAM REQUIREMENTS:

The Theatre Arts: Stagecraft Certificate of Achievement program prepares students for entry level and apprentice employment as a professional scenic artist, for the stage, film or television environments. In addition, this program prepares students wishing to pursue a career in scenic design, properties design, or technical direction with a solid foundation in all aspects of stagecraft. The program focuses on a hands-on approach to the study of materials, equipment, terminology, safety issues, and technical skills required for dramatic productions.

PROGRAM STUDENT LEARNING OUTCOMES

1. Work effectively with lighting and scenery design plans;
2. work competently with common materials and techniques when constructing theatrical elements;
3. apply fundamental techniques of stagecraft when participating in the backstage functions of a performance;
4. demonstrate basic skills in one or more of the following areas of specialization:

- running crew
- lighting hang and focus
- scenic carpentry
- welding and/or scenic painting
- audio set up and routing;

5. integrate knowledge of theatre history and literature when constructing theatrical elements; and
6. perform for the stage at a beginning level using fundamental techniques of voice, movement, and the actor's craft.

THEATRE ARTS CORE REQUIREMENTS - COMPLETE 6.0 UNITS

THAR 1	World Theatre Through Time	3.0
THAR 10A	Introduction to Acting	3.0

STAGECRAFT EMPHASIS REQUIREMENTS - COMPLETE 26.5 UNITS

THAR 20	Introduction to Stagecraft	3.0
THAR 23	Introduction to Scenic Design	3.0
THAR 24	Design Workshop	3.0
THAR 25.2	Production Lab: Running Crew	3.0
THAR 26	Introduction to Theatrical Lighting	3.0
THAR 27	Properties Workshop	2.0

Complete any combination totaling at least 8.0 units from the following:

ART 3	Introduction to Art and Design	3.0
ART 4	Principles of Color	3.0
ART 5	Three Dimensional Design	3.0
ART 7A	Drawing and Composition 1	3.0
ART 13	Watercolor	3.0
SRT 47.2	Summer Repertory Theatre - Stagecraft	6.0
THAR 25.5	Production Lab: Construction	3.0
THAR 127.1	Properties Workshop: Furniture and Upholstery	2.0
THAR 127.2	Properties Workshop: Mold Making and Casting	2.0
THAR 127.3	Properties Workshop: Foam Carving and Food Properties	2.0
THAR 127.4	Properties Workshop: Weaponry and Specialty Items	2.0
WELD 170	Beginning Welding: Fundamentals of Arc and Gas Welding	2.0

NOTES:

1. All students enrolled in the certificate program will be assigned a faculty advisor who will meet with them regularly to monitor progress.
2. All courses in the THAR 25 series (THAR 25, 25.1, 25.2, 25.3, 25.4, and 25.5) are variable unit courses; each course may be taken up to four times, (THAR 25.2 must be taken for a total of 4.5 units to meet the Stagecraft Emphasis Requirements). The type of position and number of productions a student will work on during a semester determines the number of units. These courses are also corequisites for THAR 20, 21A, 22, and 22.1. Certificate students planning to take these courses are encouraged to contact the Theatre Arts department chair prior to registration.
3. THAR 25.2 must be taken for a total of 4.5 units to meet the Stagecraft Emphasis Requirements.

THEATRE ARTS: THEATRE MANAGEMENT

Program of Study Code: 003111

Term Effective: Fall 2017

37.00 Units

(707) 527-4248

lmccauley@santarosa.edu (mailto:lmccauley@santarosa.edu)

PROGRAM REQUIREMENTS:

The Theatre Arts: Theatre Management Certificate of Achievement program prepares students for entry level and apprentice employment as professional stage managers, assistant directors, box office personnel, and various administrative and marketing positions in the stage, film or television environments. Supervised by practicing faculty, the Theatre Management certificate centers on observing and participating in the day-to-day production process.

PROGRAM STUDENT LEARNING OUTCOMES

1. Apply basic skills in one or more of the following areas of specialization:
- stage management
- assistant stage management
- house management
- production management
- box office management
- theatre management;
2. apply fundamental techniques of theatrical management when participating in the backstage or front of house functions of a performance;
3. apply fundamental techniques of stagecraft and costuming when participating in the backstage functions of a performance;
4. integrate knowledge of theatre history and literature when managing theatrical performances; and
5. perform for the stage at a beginning level using fundamental techniques of voice, movement, and the actor's craft.

THEATRE ARTS CORE REQUIREMENTS - COMPLETE 6.0 UNITS

THAR 1	World Theatre Through Time	3.0
THAR 10A	Introduction to Acting	3.0

THEATRE MANAGEMENT EMPHASIS REQUIREMENTS - COMPLETE 28.0 UNITS

THAR 20	Introduction to Stagecraft	3.0
THAR 25.1	Production Lab: Costume Crew	3.0
THAR 25.2	Production Lab: Running Crew	3.0
THAR 27	Properties Workshop	2.0
THAR 50	Introduction to Theatre Management	3.0
THAR 50L	Theatre Management Laboratory	3.0

Complete any combination totaling at least 3.0 units from the following:

THAR 23	Introduction to Scenic Design	3.0
THAR 24	Design Workshop	3.0
THAR 26	Introduction to Theatrical Lighting	3.0

Complete any combination totaling at least 8.0 units from the following:

BAD 2	Managerial Accounting	4.0
COMM 5	Group Discussion and Problem Solving	3.0
COMM 6	Interpersonal Communication	3.0
COMM 10		

Introduction to Communication Studies		3.0
CS 60.11A	Microsoft Word, Part 1	1.5
CS 61.11A	Microsoft Excel, Part 1	1.5
SRT 47.5	Summer Repertory Theatre - Theatre Management	6.0
THAR 21A	Introduction to Costume Tech	3.0
THAR 23	Introduction to Scenic Design	3.0
THAR 24	Introduction to the Design Process	3.0
THAR 25	Production Lab: General	3.0
THAR 25.3	Production Lab: House Staff	3.0
THAR 25.5	Production Lab: Construction	3.0
THAR 26	Introduction to Theatrical Lighting	3.0

NOTES:

1. All students enrolled in the certificate program will be assigned a faculty advisor who will meet with them regularly to monitor progress.
2. THAR 23, 24, 26 and 27 may only be used to fulfill one requirement in the certificate, either the Design requirement or the Additional Skills requirement.
3. All courses in the THAR 25 series (THAR 25, 25.1, 25.2, 25.3, 25.4, and 25.5) are variable unit courses; each course may be taken up to four times. Units are determined by the type of position and number of productions a student will work on during a semester. These courses are also co-requisites for THAR 20, 21, 22A, and 22B. Certificate students planning to take these courses are encouraged to contact the Theatre Arts department chair prior to registration.
4. THAR 50L must be repeated for a total of 6.0 units to meet Theatre Management Emphasis Requirements
5. Courses listed in multiple categories may not be counted more than once.

VETERINARY TECHNICIAN

Program of Study Code: 003321

Term Effective: Fall 2018

24.00 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Santa Rosa Junior College Veterinary Technician Certificate of Achievement program is designed to prepare students for Veterinary Technician careers with veterinarians and other professionals in the animal health care services. The Veterinary Technician program equips students with the knowledge and introduces students to the procedures and skills necessary in the companion animal veterinary industry today. The Veterinary Technician

Certificate curriculum satisfies students the state mandated academic knowledge and semester units requirements to pursue the Category 4 (Alternate Route Category) to become a Registered Veterinary Technician (RVT).

PROGRAM STUDENT LEARNING OUTCOMES

1. Be qualified to sit for the RVT exam in the State of California through the "Alternate Route" so long as students also complete their state mandated clinical experience hours;
2. Demonstrate competency in the necessary knowledge required for common job tasks in a small animal veterinary hospital context; and
3. Understand the directions from a veterinarian and discuss information to clients regarding common diseases, protocols and procedures in a small animal veterinary hospital context.

VETERINARY TECHNICIAN REQUIREMENTS - COMPLETE 24.0 UNITS

BIO 10	Introduction to Principles of Biology	4.0
ANHLT 50	Veterinary Anatomy and Terminology	3.0
ANHLT 52	Small Animal Disease Recognition and Transmission Control	3.0
ANHLT 120	Small Animal Veterinary Assistance and Nursing	3.0
ANHLT 121	Veterinary Surgical and Dental Assistance	3.0
ANHLT 141	Small Animal Veterinary Anesthesia	1.5
ANHLT 142	Veterinary Pharmacology and Medical Calculations	1.5
ANHLT 151	Veterinary Laboratory and Imaging Procedures	2.0

Complete any combination totaling at least 2.0 units from the following:

ANHLT 109	Complementary and Alternative Veterinary Medicine	2.0
ANHLT 123	Small Animal Veterinary Emergencies	2.0
ANHLT 126	Veterinary Technician Review and Board Exam Preparation	2.0
ANHLT 161	Veterinary Medical Office Procedures	2.0

Complete any combination totaling at least 1.0 unit from the following:

AGRI 98	Independent Study in Agriculture	3.0
AGRI 99	Agriculture Occupational Work Experience	8.0
ANHLT 122	Animal Nursing Field Practicum	1.0
CI 51	Community Engagement	3.0

VITICULTURE

Program of Study Code: 003222

Term Effective: Fall 2019

24.00 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Viticulture Certificate of Achievement program provides training for employment as vineyard managers in North Coast wine grape production.

PROGRAM STUDENT LEARNING OUTCOMES

1. Conduct in-depth feasibility studies for new vineyard development, and from the results, prepare comprehensive reports and cost projections appropriate to their planting recommendations;
2. identify and implement sustainable farming practices that will improve fruit quality, provide efficacious pest and disease management, protect natural resources and the environment, and prepare a farming plan that encompasses these practices;
3. research and apply all county, state and federal laws regarding vineyard development and maintenance, worker safety, pesticide use, and environmental protection;
4. demonstrate a working knowledge of the latest technological advances in vineyard management and incorporate current technology into their farming plans and budgets;
5. work cooperatively and effectively with wineries to determine optimum harvest parameters, coordinate the operations required, and negotiate a grape contract;
6. show management and leadership capabilities by effectively training others to perform hands-on vineyard tasks: and
7. contribute to the winegrape industry and participate in professional organizations at the local, state-wide, national and international levels.

VITICULTURE REQUIREMENTS - COMPLETE 24.0 UNITS

AGRI 60	Soil & Plant Nutrition	3.0
VIT 51	Viticulture: Fall Practices	3.0
VIT 52	Viticulture: Spring Practices	3.0
VIT 55	Basic Wine Grape Viticulture	3.0
VIT 60	Vineyard Management	3.0

Complete any combination totaling at least 3.0 units from the following:

AGRI 70	Integrated Pest Management	3.0
VIT 70	Vineyard Pest and Disease Management	3.0

Complete any combination totaling at least 6.0 units from the following:

AGBUS 2	Agricultural Computer Applications	3.0

AGBUS 7	Agricultural Economics	3.0
AGBUS 56	Introduction to Agriculture Business and Management	3.0
AGBUS 61	Agricultural Marketing	3.0
AGMEC 50	Agricultural Machinery and Equipment Skills	3.0
NRM 87	Geographic Info. Systems Applications in Natural Resources	3.0
SPAN 50A	Conversation for Beginners-Part 1	3.0
VIT 1	Introduction to Viticulture, Winemaking, Wines of the World	3.0
VIT 53	Advanced Vineyard Practices for Quality Production	3.0
VIT 54	Viticulture: Summer Practices	1.0
VIT 113	Organic Viticulture	1.5
VIT 114	Sustainable Viticulture	1.5
VIT 120	Vineyard Pruning	0.5
VIT 121	Pruning Techniques for Vine Balance	0.5
VIT 122	Vineyard Canopy Management	1.0
VIT 123	Spring Budding & Grafting	0.5
VIT 124	Vineyard Irrigation and Fertilization	1.0
VIT 130	Grapevine Physiology	1.0
VIT 131	Working with Your Winemaker - Fruit Quality Assurance	1.0
VIT 133	Advances in Viticulture	1.0
WINE 70	Beginning Wine Sensory Analysis	1.5

VOCATIONAL NURSING

Program of Study Code: 003031

Term Effective: Fall 2018

68.00 Units

(707) 527-4290

smeehl@santarosa.edu (mailto:smeehl@santarosa.edu)

PROGRAM REQUIREMENTS:

The Vocational Nursing Certificate of Achievement prepares students to apply to the Board of Vocational Nursing and Psychiatric Technicians to take the NCLEX PN examination in order to receive the Vocational Nursing license from the California Department of Consumer Affairs. The program is accredited by the California Board of Vocational Nursing and Psychiatric Technicians. The program provides a minimum of 1,530 hours of instruction and clinical experience. Clinical sites are arranged at local health care facilities for a wide range of experiences. No wages or stipends are paid to students during their training period.

PROGRAM STUDENT LEARNING OUTCOMES

1. Satisfy the requirements for application to the take the NCLEX-PN Licensure Exam;
2. transition from student to vocational nurse in a variety of health-care settings;
3. practice competently and safely in a variety of health care settings appropriate to entry level vocational nurse;
4. communicate effectively as a member of a multidisciplinary team;
5. maintain high professional and ethical standards of vocational nursing practice;
6. utilize concepts of human growth and development and psycho/socio/cultural needs of clients as they apply to self-care models; and, promote family centered care that is culturally sensitive;
7. assume responsibility for ongoing educational and professional development;
8. provide leadership and effective supervision of unlicensed assistive personnel within the vocational nursing scope of practice;
9. adapt rapidly to new technologies and changing conditions of health care; and
10. grow in the ability to think critically and incorporate new knowledge and skills into the theoretical knowledge base acquired in the VN program.

PROGRAM SELECTION PROCESS:

Applicants who have completed all program pre-requisites by the deadline of the application year will be assigned a cut score designed by the California State Chancellors' office. Qualified applicants will be entered into the random selection process required by the California State Chancellor's office. For more information about the cut score and selection process please contact a Health Science counselor or see the Health Science VN website.

VOCATIONAL NURSING PREREQUISITE REQUIREMENTS - COMPLETE 18.0 UNITS

PSYCH 4	Child and Adolescent Psychology	3.0

Complete any combination totaling at least 3.0 units from the following:

ANAT 1	General Human Anatomy	5.0
ANAT 58	Introduction to Human Anatomy	3.0

Complete any combination totaling at least 3.0 units from the following:

COMM 1	Introduction to Public Speaking	3.0
COMM 5	Group Discussion and Problem Solving	3.0
COMM 6	Interpersonal Communication	3.0
COMM 7	Intercultural Communication	3.0
COMM 60	Communication Skills	3.0

Complete any combination totaling at least 3.0 units from the following:

FDNT 62	Nutrition & Diet Therapy	3.0
FDNT 10	Elementary Nutrition	3.0

And

FDNT 162	Diet Therapy for Healthcare	2.0

Complete any combination totaling at least 3.0 units from the following:

PHYSIO 1	Human Physiology	5.0
PHYSIO 58	Introduction to Human Physiology	3.0

Complete any combination totaling at least 3.0 units from the following:

PSYCH 1A	General Psychology	3.0
PSYCH 5	Abnormal Psychology	3.0
PSYCH 7	Theories of Personality	3.0
PSYCH 56	Aging, Dying and Death	3.0

VOCATIONAL NURSING REQUIREMENTS - COMPLETE 50.0 UNITS

NRV 51	Fundamentals and Basics of Vocational Nursing	8.0
NRV 51L	Fundamentals & Basic Vocational Nursing Clinical Experience	6.0
NRV 52.1	Intermediate Vocational Nursing	8.0
NRV 52.1L	Intermediate Clinical for Vocational Nursing	4.0
NRV 52.2	Maternal-Child Health Vocational Nursing	2.0
NRV 52.2L	Maternal-Child Health Vocational Nursing Clinical	2.0
NRV 53	Advanced Vocational Nursing Theory	8.0
NRV 53L	Advanced Vocational Nursing Clinical	6.5
NRV 58A	Fundamental Skills Lab for Vocational Nursing	1.0
NRV 58B	Intermediate Vocational Nursing Skills Lab	1.0
NRV 58C	Advanced Skills Lab for Vocational Nursing	0.5
NR 203	Fundamental Pharmacology for Nursing	2.0
PHARM256.1	Advanced Pharmacology	1.0

PROGRAM REQUIREMENTS NOTES:

- Program requirements are put in place by external accreditation and regulatory agencies (BVNPT) and are not subject to catalog rights.
- Eligibility for ENGL 1A
- Eligibility for MATH 150A
- A clear background check is required by clinical agencies. Accepted students must successfully pass a criminal background check (paid by students) this will require social security numbers.
- Complete all health requirements noted on VN program webpage (paid by students).

- Strongly recommended to meet with a Health Science counselor for guidance with VN certificate or VN Major. Call (707) 527-4451 for Santa Rosa campus or (707) 778-3914 for Petaluma campus to make an appointment.
- Proof of high school graduation or equivalency (HS Diploma, transcript showing Associate Degree or higher degree, GED certificate, document of equivalency of foreign education to US High school graduation or higher.
- Official transcripts showing proof of all pre-requisite course completion, this includes official SRJC transcripts.
- Meet the current Chancellor's cut score for cohort (includes grade in Anatomy/Physiology, GPA)
  - Cut score determined by State Chancellor's calculation pattern.
  - **Important**: Chancellor's cut score based on highest grade, in A&P. Basic requirement Anatomy 58 and Physio 58. **Students should NOT repeat sciences unless critical, points lost in Chancellor's cut score.**
  - All classes and pre-requisites must be completed with a C or better.
  - All qualified candidates assigned a random number per Chancellor's guidelines.
  - First 32 qualified applicants will be selected at random from applicant pool.
  - Other qualified applicants not selected assigned rank number as alternate.
  - Once class starts, alternate status is closed and applicants must reapply for a future class.

NOTES:

All program classes must be completed with a C (75%) or better.

WASTEWATER OPERATOR

Program of Study Code: 005090

Term Effective: Spring 2018

6.00 Units

(707) 527-4603

cmurray@santarosa.edu (mailto:cmurray@santarosa.edu)

PROGRAM REQUIREMENTS:

The Wastewater Operator skills certificate qualifies students for an Operator-in-Training (OIT) certificate and prepares students for California's State Water Resources Control Board, Wastewater Treatment Plant Operator Certification examination WWTP Grade I. Upon successful completion of this certificate, the student will be able to: 1. Recognize, explain and apply primary and secondary treatment processes/purposes commonly used to treat domestic and industrial waste. 2. Perform calculations common to the fields of water distribution technology, water treatment technology, and wastewater treatment technology. 3. Explain the requirements of California Title 23 and qualify to take the State of California Water Resources Control Board, Wastewater Treatment Plant Operator Certification (WWTP) Grade I examination.

WASTEWATER OPERATOR REQUIREMENTS - COMPLETE 6.0 UNITS

WWTR 112	Math for Water and Wastewater Technology	3.0
WWTR 120	Wastewater Treatment 1	3.0

WASTEWATER TREATMENT OPERATIONS

Program of Study Code: 003333

Term Effective: Fall 2019

18.00 Units

(707) 527-4603

cmurray@santarosa.edu (mailto:cmurray@santarosa.edu)

PROGRAM REQUIREMENTS:

The Wastewater Treatment Operations Certificate of Achievement provides instructional training necessary for mid-level positions in the operation of wastewater treatment facilities and wastewater collection systems as well as assistance in developing the knowledge to pass the required examinations administered by the California Department of Health Services. Students may continue on to major in this area by completing additional course work and meeting other college requirements to earn an Associates' degree.

PROGRAM STUDENT LEARNING OUTCOMES

1. Read and interpret meters and gauges that monitor the purification process and operation;
2. apply data to formulas that determine treatment requirements, flow levels, and concentration levels;
3. collect water samples, operate chemical-feeding devices, and perform laboratory tests;
4. use information to control pumps, valves, and generators that move wastewater through treatment processes and dispose of the waste materials;
5. use computers to monitor and regulate processes and equipment and to generate reports; and
6. apply to take the Wastewater Treatment Plant Operator Examination Grade II.

WASTEWATER TREATMENT OPERATIONS - COMPLETE 18.0 UNITS

WWTR 112	Math for Water and Wastewater Technology	3.0
WWTR 120	Wastewater Treatment 1	3.0
WWTR 121	Wastewater Treatment 2	3.0
WWTR 122	Chemistry for Water and Wastewater Technology	3.0
WWTR 123	Instrumentation and Controls	3.0
WWTR 124	Pumps and Motors	3.0

WATER DISTRIBUTION

Program of Study Code: 005092

Term Effective: Spring 2018

6.00 Units

(707) 527-4603

cmurray@santarosa.edu (mailto:cmurray@santarosa.edu)

PROGRAM REQUIREMENTS:

The Water Distribution skills certificate prepares students for California's State Water Resources Control Board, Drinking Water Operator Certification Program (DWOCP) Grade D1 & D2 examinations.

PROGRAM STUDENT LEARNING OUTCOMES

1. Perform calculations common to the fields of water distribution technology, water treatment technology, and wastewater treatment technology
2. Operate all facilities in the potable water distribution system classified by the State of California as a Certified D1 Operator or Certified D2 Operator.

WATER DISTRIBUTION - COMPLETE 6.0 UNITS

WTR 111	Water Distribution System Operator	3.0
WWTR 112	Math for Water and Wastewater Technology	3.0

WATER TREATMENT

Program of Study Code: 005091

Term Effective: Spring 2018

6.00 Units

(707) 527-4603

cmurray@santarosa.edu (mailto:cmurray@santarosa.edu)

PROGRAM REQUIREMENTS:

The Water Treatment skills certificate prepares students for California's State Water Resources Control Board, Drinking Water Operator Certification Program (DWOCP) Grade T1 & T2 examinations. Program Student Learning Outcomes Upon successful completion of this certificate, the student will be able to: 1. Perform calculations common to the fields of water distribution technology, water treatment technology, and wastewater treatment technology 2. Perform the skills necessary to independently operate and maintain a water treatment facility at the Certification Grade T1 level and, with minor supervision, at the Certification Grade T2 level

WATER TREATMENT - COMPLETE 6.0 UNITS

WTR 110	Water Treatment Plant Operator	3.0
WWTR 112	Math for Water and Wastewater Technology	3.0

WATER UTILITY OPERATIONS

Program of Study Code: 003323

Term Effective: Fall 2019

18.00 Units

(707) 527-4603

cmurray@santarosa.edu (mailto:cmurray@santarosa.edu)

PROGRAM REQUIREMENTS:

The Water Utility Operations Certificate of Achievement provides instructional training necessary for mid-level positions in the operation of water treatment facilities and water distribution systems as well as assistance in developing the knowledge to pass the required examinations administered by the California Department of Health Services.

PROGRAM STUDENT LEARNING OUTCOMES

1. Qualify to take the Certified Examinations at the Treatment (T3) or Distribution (D3) levels;
2. evaluate careers in water treatment technology;
3. utilize mathematical methods applicable to the fields of water treatment technology and water distribution technology;
4. perform laboratory techniques and measure common water quality parameters related to water treatment parameters, such as turbidity and chlorine residual;
5. meet current industry standards of training for the safe operation of a water treatment plant and delivery of water in a distribution system;
6. evaluate and regulate water treatment processes and equipment including diagnosing system problems and taking effective actions to solve those problems; and
7. comply with regulations ensuring the safety and health of the operator and the public.

WATER UTILITY OPERATIONS REQUIREMENTS - COMPLETE 18.0 UNITS

WTR 110	Water Treatment Plant Operator	3.0
WTR 111	Water Distribution System Operator	3.0
WWTR 112	Math for Water and Wastewater Technology	3.0
WWTR 122	Chemistry for Water and Wastewater Technology	3.0
WWTR 123	Instrumentation and Controls	3.0
WWTR 124	Pumps and Motors	3.0

WELDING TECHNOLOGY

Program of Study Code: 003035

Term Effective: Fall 2019

17.50 Units

(707) 527-4379

bwhitaker@santarosa.edu (mailto:bwhitaker@santarosa.edu)

PROGRAM REQUIREMENTS:

The Welding Technology Certificate of Achievement prepares students for work in areas of ship building, bridges and building construction, pipeline construction, refrigeration, missile and aircraft construction, automobiles and related industries where metal must be joined together.

PROGRAM STUDENT LEARNING OUTCOMES

1. Interpret blue prints and identify welding symbols;
2. utilize the mathematic skills, as needed, in the fabricating industry;
3. demonstrate the knowledge and skills to safely use tools and equipment in a fabricating/welding shop;
4. identify the difference between ferrous and non-ferrous metals;and
5. demonstrate the ability to pass the American Welding Society Unlimited Structural Certification Test.

WELDING TECHNOLOGY REQUIREMENTS - COMPLETE 17.5 UNITS

IED 190	Industrial Mathematics	1.5
MACH 51A	Beginning Machine Tool Technology	2.0
WELD 170	Beginning Welding: Fundamentals of Arc and Gas Welding	2.0
WELD 175A	Welding Technology 1	6.0

Complete any combination totaling at least 6.0 units from the following:

WELD 175B	Welding Technology 2	6.0
WELD 171.1	Advanced Shielded Metal Arc Welding	2.0
WELD 171.2	Gas Metal Arc Welding and Gas Tungsten Arc Welding	2.0
WELD 171.3	Flux Core Arc Welding (FCAW)	2.0

NOTES:

It is recommended that students complete WELD 70 or an equivalent welding class, or have some trade experience in gas or arc welding prior to beginning this program.
Students should have the desire and ability to work with their hands and possess a high degree of mechanical aptitude. Completion of high school courses in mechanical drawing, blueprint reading, general metals and technical mathematics is also recommended.

WINE STUDIES: ENOLOGY

Program of Study Code: 003291

Term Effective: Fall 2019

29.00 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Wine Studies: Enology Certificate of Achievement emphasis, the study of winemaking, offers students an intense, hands-on, experience in fall and spring winery operations and essentialintroduction to chemistry, organic chemistry, and wine lab analysis. Santa Rosa Junior College's Enology concentration is an interdisciplinary academic/occupational program between the College's outstanding Chemistry and Agriculture/Natural Resources Departments.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate knowledge of the fundamentals of winemaking and wine cellar practices including product evaluation; and
2. Demonstrate knowledge of general chemistry principles, wine microbiology fundamentals, and wine laboratory techniques; and
3. Demonstrate practices of wine analysis methods during cellaring operations.

WINE STUDIES CORE REQUIREMENTS - COMPLETE 17.0 UNITS

AGBUS 2	Agricultural Computer Applications	3.0
WINE 1	Introduction to Viticulture, Winemaking, Wines of the World	3.0
WINE 3	Introduction to Enology	4.0
WINE 42.2	Spring Winery Operations	2.0
WINE 70	Beginning Wine Sensory Analysis	1.5
WINE 110	Advanced Wine Sensory Analysis	1.5

Complete any combination totaling at least 2.0 units from the following:

AGRI 99	Agriculture Occupational Work Experience	8.0
WINE 42.1	Fall Winery Operations	2.0

WINE STUDIES: ENOLOGY EMPHASIS REQUIREMENTS - COMPLETE 12.0 UNITS

Complete any combination totaling at least 12.0 units from the following:

CHEM 1A	General Chemistry	5.0
CHEM 8	Introductory Organic Chemistry	5.0
CHEM 42	Introductory General Chemistry	4.0
WINE 55	Lab Analysis of Wines	3.0

WINE STUDIES: WINE HOSPITALITY AND DIRECT MARKETING

Program of Study Code: 003289

Term Effective: Fall 2019

22.00 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Wine Studies: Wine Hospitality and Direct Marketing Certificate of Achievement prepares students with skills such as serving wine according to professional standards, planning and effectively publicizing wine industry events, selling wine direct to consumers, and effectively using social media. In addition, the wine core classes give students a thorough understanding of winemaking procedures, principles of wine tasting and analysis, computer programs used in wineries, and knowledge of wines produced locally, regionally, and internationally. The Wine Hospitality and Direct Marketing certificate prepare students for specific job opportunities that include wine consultant, server, tasting room representative, wine sales specialist, wine educator, wine club administrator, and winery and restaurant event staff.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate knowledge of skills such as serving wine according to professional standards including an understanding of wine evaluation; and
2. Demonstrate the skills required for planning an effective publicity program for a wine industry event; and
3. Discuss wine regions and characteristics of grape varieties suited to specific regions; and
4. Demonstrate knowledge of the fundamentals of the wine industry including basic enology and business concepts.

WINE STUDIES: WINE HOSPITALITY AND DIRECT MARKETING - COMPLETE 22.0 UNITS

AGBUS 2	Agricultural Computer Applications	3.0
WINE 1	Introduction to Viticulture, Winemaking, Wines of the World	3.0
WINE 70	Beginning Wine Sensory Analysis	1.5
WINE 103	Wine Direct to Consumer Sales	1.5
WINE 110	Advanced Wine Sensory Analysis	1.5
WINE 128	Developing and Maintaining Wine Social Media Campaigns	1.5
WINE 130	Wine Service and Hospitality	1.5
WINE 131	Wine Industry Event Planning	1.5

Complete any combination totaling at least 4.0 units from the following:

WINE 42.1	Fall Winery Operations	2.0
And		
WINE 42.2	Spring Winery Operations	2.0

or

WINE 3	Introduction to Enology	4.0

Complete any combination totaling at least 1.5 units from the following:

WINE 111.1	Sonoma American Viticulture Areas-North County	1.5
WINE 111.2	Sonoma American Viticulture Areas-South County	1.5

Complete any combination totaling at least 1.5 units from the following:

AGRI 56	Agricultural Enterprise Project	4.0
AGRI 98	Independent Study in Agriculture	3.0
AGRI 99	Agriculture Occupational Work Experience	8.0
AGRI 99I	Agriculture Occupational Work Experience Internship	8.0
CUL 256.5	Wine Appreciation	1.5
CUL 256.11	Wine and Food Pairing	1.5
WINE 101	Wine Sales	1.5
WINE 102	Wine Marketing	1.5
WINE 105	Wine Public Relations	1.5
WINE 109	Wine Club Creation, Maintenance and Promotion	1.5
WINE 112	Wine Regions of California	1.5
WINE 113	Winemakers of Sonoma County	1.5
WINE 114	Wines of California and Europe	1.5
WINE 116	Wines of Italy	1.5
WINE 117	Wines of France	1.5
WINE 118	Zinfandel-Grape to Glass	1.5
WINE 119	An Examination of Pinot Noir	1.5
WINE 121	Wines of Spain	1.5
WINE 123	Causation and Detection of Wine Faults	1.0
WINE 124	Cabernet Sauvignon Around the World	1.5
WINE 125	Napa Valley Appellations	1.5

WINE STUDIES: WINE MARKETING

Program of Study Code: 003290

Term Effective: Fall 2019

26.50 Units

(707) 527-4408

info-agnr@santarosa.edu (mailto:info-agnr@santarosa.edu)

PROGRAM REQUIREMENTS:

The Wine Studies: Wine Marketing Certificate of Achievement prepares students with skills such as constructing a wine marketing plan, applying management and business principles to wine marketing, describing wine distribution methods and wine markets, calculating prices in markets, and basic knowledge of retail wine sales.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate knowledge of skills such as constructing a wine marketing plan, applying management and business principles to wine marketing; and
2. Describe wine distribution methods and wine markets, calculation of pricing in markets, and basic knowledge of global retail wine sales.
3. Demonstrate knowledge of the fundamentals of the wine industry including product evaluation and basic enology concepts.

WINE BUSINESS AND MARKETING EMPHASIS REQUIREMENTS - COMPLETE 26.5 UNITS

AGBUS 2	Agricultural Computer Applications	3.0
BMK 50	Marketing	3.0
WINE 1	Introduction to Viticulture, Winemaking, Wines of the World	3.0
WINE 70	Beginning Wine Sensory Analysis	1.5
WINE 101	Wine Sales	1.5
WINE 102	Wine Marketing	1.5
WINE 103	Wine Direct to Consumer Sales	1.5
WINE 110	Advanced Wine Sensory Analysis	1.5

Complete any combination totaling at least 4.0 units from the following:

WINE 42.1	Fall Winery Operations	2.0
And		
WINE 42.2	Spring Winery Operations	2.0
or		
WINE 3	Introduction to Enology	4.0

Complete any combination totaling at least 1.5 units from the following:

WINE 111.1	Sonoma American Viticulture Areas-North County	1.5
WINE 111.2	Sonoma American Viticulture Areas-South County	1.5

Complete any combination totaling at least 4.5 units from the following:

AGRI 56	Agricultural Enterprise Project	4.0
AGRI 99	Agriculture Occupational Work Experience	8.0
AGRI 99I	Agriculture Occupational Work Experience Internship	8.0
CUL 256.5	Wine Appreciation	1.5

WINE 105	Wine Public Relations	1.5
WINE 109	Wine Club Creation, Maintenance and Promotion	1.5
WINE 112	Wine Regions of California	1.5
WINE 113	Winemakers of Sonoma County	1.5
WINE 114	Wines of California and Europe	1.5
WINE 116	Wines of Italy	1.5
WINE 117	Wines of France	1.5
WINE 118	Zinfandel-Grape to Glass	1.5
WINE 119	An Examination of Pinot Noir	1.5
WINE 121	Wines of Spain	1.5
WINE 123	Causation and Detection of Wine Faults	1.0
WINE 124	Cabernet Sauvignon Around the World	1.5
WINE 125	Napa Valley Appellations	1.5
WINE 127.1	Wine Compliance - Licensing	1.5
WINE 127.2	Winery Compliance - Required Recordkeeping and Reporting	1.5
WINE 128	Developing and Maintaining Wine Social Media Campaigns	1.5
WINE 130	Wine Service and Hospitality	1.5
WINE 131	Wine Industry Event Planning	1.5

YOGA: 200-HOUR TEACHER TRAINING

Program of Study Code: 005079

Term Effective: Fall 2018

9.50 Units

(707) 778-4118

athomas@santarosa.edu (mailto:athomas@santarosa.edu)

PROGRAM REQUIREMENTS:

The Yoga: 200-Hour Teacher Training Skills Certificate fulfills the requirements of the Yoga Alliance 200-hour Registered Yoga Teacher (RYT 200) which serves as the minimum credential required by many employers of yoga teachers. This program covers yoga techniques including postures, breathing exercises, and meditation; teaching methodology, anatomy and physiology, philosophy, business aspects of yoga, and ethics.

PROGRAM STUDENT LEARNING OUTCOMES

1. Demonstrate correct technique in yoga practices including asanas (postures), pranayamas (breathing practices), and meditation.

2. Develop a personal teaching style that includes effective class management, communication, and addresses multi-level needs and special populations within a group setting.
3. Apply principles of human anatomy, physiology and energy anatomy to yoga practices.
4. Analyze yoga philosophy, values and ethics through yogic texts, and incorporate them into yoga practices.
5. Design and execute, as a lead teacher or assistant, safe and effective yoga sequences and classes.

YOGA 200-HOUR TEACHER TRAINING REQUIREMENTS - COMPLETE 10.0 UNITS

KINES 70	Yoga Techniques, Training, and Practice I	3.0
KINES 71	Yoga Techniques, Training, and Practice II	2.0
KINES 72	Yoga Teaching Methodology	1.0
KINES 73	Anatomy and Physiology for Yoga Teachers	1.0
KINES 74	Yoga Philosophy, Lifestyle, and Ethics	1.5

Complete any combination totaling at least 1.0 unit from the following:

KINES 50	Teaching Practicum	1.5
WEOC 99I	Occupational Work Experience Internship	8.0

THE CATALOG 2019-2020 SECTION 7: ANNOUNCEMENT OF COURSES

CONTENTS:

Course Numbering

C-ID Course Identification Numbering System

Course Symbols

Prerequisites, Corequisites, and Advisories

2019-2020 List of Courses

COURSE NUMBERING

The course numbering explanation provided below is to help students easily identify those courses needed as they plan their studies at SRJC.

All courses numbered 299 or lower (1-299) are Associate's Degree courses. They can be applied toward the 60 unit A.A./A.S. graduation requirement and for certificates.

1-49

Courses numbered 1-49 are accepted by the University of California (UC) system and most other four-year colleges and universities. For specific course articulation comparability consult the Counseling Office or the Transfer Center.

1-99

Courses numbered 1-99 are accepted by the California State University (CSU) system. For specific course to course articulation, consult the Counseling Office or the Transfer Center.

INDEPENDENT STUDY 49 AND 98 COURSES

Independent Study or special project courses are numbered 49 and 98, and are offered to provide an opportunity for students to further their knowledge and skills in a specific subject. They provide the students experience in planning and outlining a course of study on their own initiative under instructor and departmental supervision. These courses are not offered to cover the content of a course that is already part of the College's regular program of instruction.

It is recommended that students who contemplate enrolling for independent study courses should have completed one semester of college work and should have taken at least a minimum of one previous course in the specific department in which they will do the independent study. Students enrolling in an Independent Study course numbered 98 must pursue a major in the occupational area of which the independent study project is a part.

Students desiring to register for an Independent Study course must first develop their own project and submit this in writing for the approval of the instructor who will guide the project, the chairperson of the department in which the course is given, and the appropriate dean. Forms are available in the department or the appropriate dean's office. Three independent study units a semester is considered a reasonable load. A total of six (6) units only, for any combination of 49 and 98 courses, is allowed toward an A.A. degree or toward the 60-unit transfer requirement. In addition, students taking Independent Study courses numbered 49 need to be advised that the University of California (UC) determines credit after transfer, which means that the 49 courses are not counted for admission. (See a counselor for details.)

100-299

Courses numbered 100-299 are associate degree applicable. Although not intended for university transfer, occasionally these courses may be accepted for transfer credit by four-year institutions. The determination of acceptance of these courses will be made by the receiving institution. To check whether an articulation agreement exists for a particular course, consult the Counseling Office or the Transfer Center.

300-399

Courses numbered 300-399 are college credit, non-degree applicable, and basic skill courses. Non-degree credit courses are courses that earn credit but are not counted toward the 60 units required for the associate degree. Non-degree courses are intended to assist students in acquiring skills needed for college level courses. These courses do apply toward residency, athletic eligibility, work study and financial aid, veterans benefits, associated student body office, and full-time status.

400 AND ABOVE

Courses numbered 400 and above are non-credit; no college credit is given for these courses.

EXPERIMENTAL COURSES: 89S, 129S, 229S & 329S

Experimental or temporary courses are numbered with 89s, 129s, 229s, and 329s. The College may occasionally offer courses with these numbers, which are designed as trial efforts at new curricular content or methods. Such courses are approved for use as electives toward the associate degree, but may not be usable for a requisite course in a degree, certificate, or general education pattern.

C-ID COURSE IDENTIFICATION NUMBERING SYSTEM

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. Thus, if a Santa Rosa Junior College course qualifies for a C-ID number, students can be assured that it will be accepted in lieu of a course bearing the same C-ID designation at another community college.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer. To confirm how each course will be accepted at a particular four-year college or university for transfer credit, students should always go to **www.assist.org (http://www.assist.org/)** (the official repository of articulation for California's public colleges and universities).

To view a current list of SRJC courses approved for C-ID numbers, visit **https://articulation.santarosa.edu/ (https://articulation.santarosa.edu/)**, and click on "C-ID Qualified Courses".

COURSE SYMBOLS

Where applicable, following the end of each course description it is noted if the course meets requirements for the SRJC associate degree, CSU General Education pattern, and/or the IGETC pattern. It should be noted that both the graduation and transfer requirements are subject to change. Students should consult their counselors for the latest information.

PREREQUISITES, COREQUISITES, AND ADVISORIES

If a course has a prerequisite or corequisite indicated, a student is not allowed to enroll in the class unless he or she has met the stated prerequisite(s). A student has the right to challenge a course corequisite/prerequisite based on the following grounds: the corequisite/prerequisite has not been established in accordance with the District's process for establishing corequisite/prerequisites; the corequisite/prerequisite is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner; or the student has the knowledge or ability to succeed in the course or program despite not meeting the corequisite/prerequisite. The burden of proof is on the student. If the challenge is upheld, the student may enroll; if not, the student will be dropped or not allowed to enroll in the class.

Each student is responsible for meeting all course corequisite/prerequisites. Students must receive a satisfactory grade in a prerequisite course in order to enroll in the target course. A satisfactory grade is defined as a grade of Credit (CR)/Pass (P) or C or better.

Policy 8.1, Revised, January 2014

Students may not receive credit for a Santa Rosa Junior College course that is a prerequisite to a Santa Rosa Junior College course he or she has already completed.

Many courses have "recommended preparations." While students can enroll in the course without completing the recommended course, it must be taken seriously. If you are not sure if you are prepared to take a course, see your counselor or advisor.

ADAPTED PHYSICAL EDUCATION (APE)

APE 301 HEALTH AND FITNESS

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP.
Description: This course is designed for students with disabilities with a focus on health and fitness concepts that are important in making informed choices about one's physical, mental and emotional well-being. Health and fitness resources at the Santa Rosa Junior College will be explored.

APE 701 ADAPTED SWIMMING

(Formerly LPE 701) 0 Unit/3 hours laboratory. Non-Credit Course.
Description: This course is designed for students with disabilities. Personalized programs will include instruction in water safety, aquatic exercise and basic swimming skills. Programs will address the limitations of individual disability. Emphasis is on encouraging independence through the teaching of lifelong fitness skills.
Exempt From Repeat Provisions

APE 709 ADAPTED BODY CONDITIONING

(Formerly LPE 709) 0 Unit/3 hours laboratory. Non-Credit Course.
Description: This course is designed for students with disabilities. Personalized exercise programs are created that focus on strength training, cardiovascular endurance, and flexibility training, Programs will address the limitations of individual disability. Emphasis is on encouraging independence through the teaching of lifelong fitness skills.
Exempt From Repeat Provisions

APE 710 ADAPTED PHYSICAL EDUCATION LAB

(Formerly LPE 710) 0 Unit/3 hours laboratory. Non-Credit Course.
Description: This lab course is designed for students with physical disabilities. Students will work towards achieving functional fitness goals and should be able to use the equipment in the Adapted PE classroom with limited direct instruction. Students' exercise programs will address: strength, balance, coordination, endurance and flexibility with an emphasis on independence and developing lifelong fitness skills.
Exempt From Repeat Provisions

APE 715 ADAPTED DANCE LAB

0 Unit/3 hours laboratory. Non-Credit Course.
Description: Introduces elements of dance such as rhythm, coordination, body and spatial awareness, movement vocabulary, and creative expression while improving physical conditioning for students with disabilities.
Exempt From Repeat Provisions

ADMINISTRATION OF JUSTICE (AJ)

AJ 21 INTRODUCTION TO ADMINISTRATION OF JUSTICE

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ENGL 102 or ESL 100.
Transferability: CSU;UC.
C-ID: AJ 110
Description: This course explores the historical development and philosophy of the administration of justice in America, including theories of crime, punishment, rehabilitation, and the identification of the system and various subsystems, role expectations, and their interrelationships in society.

AJ 22 CONCEPTS OF CRIMINAL LAW

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: AJ 120
Description: This course is a study of the historical development, philosophy of law and constitutional provisions in the administration of justice system. The course includes defining and classifying crime, legal research, study of case law, significance of evidence and the investigation, criminal culpability, and principles of criminal defenses.

AJ 25 COMMUNITY RELATIONS

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: AJ 160
GE: *AA/AS areas D,G*
Description: This course examines the complex, dynamic relationships between communities and the justice system in addressing crime, victimization, conflict, and communication. There is an emphasis on diverse populations within the community and within the justice system.

AJ 53 JUVENILE PROCEDURES

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
C-ID: AJ 220
Description: This course is an examination of the origin, development, and organization of the juvenile justice system. The course explores the theories, procedures, and laws surrounding delinquency and dependency.

AJ 54A INTRODUCTION TO EVIDENCE

(Formerly AJ 51) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
C-ID: AJ 124
Description: The study of the philosophical and legal basis of evidence. The types will include: ways of presenting evidence, judicial decisions and statutory rules of evidence governing the admissibility of testimony, writings, and material objects at motions and trial, and constitutional and procedural considerations affecting searches, seizures, admissions and confessions.

AJ 54B BASIC CRIMINAL INVESTIGATION

(Formerly AJ 51A) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of AJ 54A. Recommended: Course Completion of AJ 55 and Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
C-ID: AJ 140
Description: This course examines the techniques, procedures, and ethical issues in the investigation of crime, including organization of the investigative process, crime scene searches, interviewing and interrogating, surveillance, information sources, evidence utility, scientific analysis of evidence, and the role of the investigator in the criminal trial process.

AJ 55 CRIMINAL PROCEDURES

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
C-ID: AJ 122
Description: This course is an examination of the development, philosophy, and stages of criminal court proceedings. Emphasis is placed on the court process, particularly the application and interpretation of procedural law, case law, and constitutional law pertaining to the first contact with the system through the appellate process.

AJ 56 CRIME AND CRIMINAL JUSTICE IN SOCIETY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
C-ID: SOCI 160
GE: *AA/AS area D;CSU area D*
Description: This course examines the theories of crime causation and the extent of crime in contemporary society, and the social, legal, and political responses to criminal and delinquent behavior.

AJ 70 INTRODUCTION TO CORRECTIONS

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
C-ID: AJ 200
Description: This course is designed to provide the student with an overview of the history and trends of adult and juvenile corrections including probation and parole. It will focus on the legal issues, specific laws and general operation of correctional institutions. The relationship between corrections and other components of the judicial system will also be examined.

AJ 71 CORRECTIONAL INTERVIEWING & COUNSELING

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course is an introduction to the techniques in counseling and interviewing used by practitioners in the corrections system. The student will examine and apply appropriate theories and techniques used by correctional employees when interviewing or counseling a client.

AJ 98 INDEPENDENT STUDY IN ADMINISTRATION OF JUSTICE

1-3 Units/Up to 9 hours by arrangement. Grade Only. Prerequisite: Course Completion of AJ 21 and Application to department. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.

Transferability: CSU.
Description: Special studies in Administration of Justice. Seminars or individual conferences by arrangement to provide for independent study and enriched academic experience on approved research topics.

AJ 99I ADMIN OF JUSTICE OCCUPATIONAL WORK EXPERIENCE INTERNSHIP

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an interview, placement and verification of employment because intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Administration of Justice Occupational Work Experience internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship placement; and supervised employment of students that extends to the job site classroom learning that relates to the students' educational or occupational goal in Administration of Justice. Students eligible for internships will have declared a major in Administration of Justice or related discipline, have completed courses in their major, or have acquired a high level of skill in their discipline, and are ready for on-the-job experience in a paid position. Students will acquire new knowledge, skills, and abilities to prepare for a career in the field of Administration of Justice.
16 Units Total (WrxEx only)

AJ 203A RANGER ACADEMY ORIENTATION

0.25 Unit/4 hours laboratory for 5 weeks. Grade Only. Prerequisite: Concurrent Enrollment in AJ 203B. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must provide a medical clearance to participate in the academy physical conditioning program and physical performance tests. California residents must pass a criminal history check as outlined in California Penal Code 13511.5. Non-residents must also pass a criminal history check through their home states or the Federal Bureau of Investigation (FBI). Students must possess a valid driver's license.
Description: Orientation to Basic Law Enforcement Training program accredited by the Federal Government to certify graduates for employment in National Parks and/or Regional and County Parks.

AJ 203B RANGER ACADEMY

17.25 Units/6 hours lecture, 34 hours laboratory. Grade Only. Prerequisite: Completion or Concurrent Enrollment of AJ 203A. Students must be enrolled in both courses during the same semester. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must provide a medical clearance to participate in the academy physical conditioning program and physical performance tests. California residents must pass a criminal history check as outlined in California Penal Code 13511.5. Non-residents must also pass a criminal history check through their home states or the Federal Bureau of Investigation (FBI). Students must possess a valid driver's license.
Description: Basic Law Enforcement Training program accredited by the Federal Government to certify graduates for employment in National Parks and/or Regional and County Parks. Upon the completion of this course the student will meet the minimum standards set by the National Park Service (NPS) for entry into a structured field training program as a Law Enforcement Ranger and/or as a Regional or County Park law enforcement employee.

AJ 222A MODULAR BASIC POLICE ACADEMY - LEVEL III

4.5 Units/2 hours lecture, 13 hours laboratory for 13 weeks. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: California residents must pass a criminal history check as outlined in California Penal Code, Section 13511.5. Non-residents must also pass a criminal history check through the Federal Bureau of Investigation (FBI).

Students must possess a valid driver's license.
Description: The course is the first of three modules of Modular Basic Police Academy course. It fulfills the requirements of Level III Reserve Officer training as prescribed by California Commission on Peace Officer Standards and Training (P.O.S.T.). Students must attend a mandatory orientation that includes distribution of a Department of Justice fingerprint packet. Record clearance is required prior to enrolling in the class. Successful completion of this course with a grade of 'C' or better allows the student to progress to the Level II Modular Basic Police academy training course. See website for details.

AJ 222B MODULAR BASIC POLICE ACADEMY - LEVEL II

6 Units/1 hour lecture, 16 hours laboratory. Grade Only. Prerequisite: Course Completion of AJ 222A or equivalent. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must pass California Peace Officer Standards and Training (POST) Reading and Writing test with a POST required minimum T-Score of 42 to meet entry level requirements for law enforcement positions. Students must pass a criminal history check as outlined in California Penal code 13511.5. Students must possess a valid driver's license.
Description: This course is the second module of the Modular Basic Police Academy course and fulfills the minimum training requirements for Level II Reserve Officers as prescribed by the California Commission on Peace Officer Standards and Training (P.O.S.T.). Topics include criminal law, laws of arrest, evidence, report writing, crimes in progress, hazardous materials, firearms, and chemical agent training.

AJ 222C MODULAR BASIC POLICE ACADEMY - LEVEL I

11 Units/4 hours lecture, 15 hours laboratory. Grade Only. Prerequisite: Course Completion of AJ 222B or equivalent. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must provide a medical clearance to participate in the academy physical conditioning program and physical performance test. Students must pass a criminal history check as outlined in California Penal code 13511.5. Students must possess a valid driver's license.
Description: The course is the third part of the Modular Basic Police Academy course. This course meets the California Commission on Peace Officer Standards and Training (P.O.S.T.) requirements for Level I Reserve or Regular Peace Officer training when taken in conjunction with Level III and Level II Modular Basic Police Academy training. Student must have completed Level III and Level II Modular Basic Police Academy training within the last three years. Students taking this course will be required to attend an orientation prior to the start of class. See website for details.

AJ 223 BASIC POLICE ACADEMY

21 Units/7.5 hours lecture, 32.5 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must pass California Peace Officer Standards and Training (POST) Reading and Writing test with a POST required minimum T-Score of 42 to meet entry level requirements for law enforcement positions. Students must pass a criminal history check as outlined in California Penal code 13511.5. Students must possess a valid driver's license.
Description: A Basic Police Academy certified by the Commission on Peace Officer Standards and Training (P.O.S.T.) for the State of California. This intensive 20 week Academy teaches criminal law, laws of search and seizure, laws of evidence, traffic laws, investigative techniques, patrol procedures, firearms, vehicle operations course, defensive tactics, police report writing, first aid, and cardio pulmonary resuscitation. The Basic Police Academy provides instruction and evaluation of all academic, physical, and behavioral traits required by the State of California to meet the minimum standards to be employed as a peace officer in California.

AJ 305 ADVANCED OFFICER TRAINING

(Formerly AJ 305.1) 0.5-3 Units/Up to 1.5 hours lecture, 4 hours laboratory. P/NP Only.
Description: This course is designed for public safety employees who must update their training in order to meet federal, state or locally mandated laws requiring currency in legal and personnel matters. The course will meet in-service refresher training needs to enhance the skills and professionalism of public safety personnel.
Legally Mandated Repetition

AJ 343 DEFENSIVE TACTICS INSTRUCTOR

1 Unit/7 hours lecture, 33 hours laboratory for 1 week. P/NP Only. Limits on enrollment: Must have law enforcement experience or equivalency. Students will be required to provide a medical clearance to participate in the DT Instructor arrest and control techniques, physical conditioning program, and POST required physical performance exam(s).
Description: This course is designed to train peace officers how to teach weaponless defense tactic and arrest and control techniques according to the California Commission on Peace Officer Standards and Training (POST).
Legally Mandated Repetition

AJ 344 DEFENSIVE TACTICS INSTRUCTOR UPDATE

0.5 Unit/5 hours lecture, 11 hours laboratory for 1 week. P/NP Only. Limits on enrollment: Must show proof of completion of basic defensive tactics course.
Description: This course is designed to update peace officers how to instruct weaponless defense tactics and arrest and control techniques according to the California Commission on Peace Officer Standards and Training (POST).
Legally Mandated Repetition

AJ 348 TRAINING MANAGER

0.5 Unit/3 hours lecture, 21 hours laboratory for 1 week. P/NP Only.
Description: This course covers topics related to management functions and training. The course includes legal issues, training needs assessment, training policies and plans, records management, training resources, and information about the California Commission on Peace Officers Standards and Training (POST).
Legally Mandated Repetition

AJ 350 BACKGROUND INVESTIGATION

0.5 Unit/32 hours laboratory for 1 week. P/NP Only. Limits on enrollment: Must possess basic POST certificate or equivalent.
Description: This course will orient students to the responsibilities in the public safety pre-employment background investigation process, including how to conduct pre-employment interviews, evaluate suitability for employment and related documentation for a thorough background investigation.
Legally Mandated Repetition

AJ 351 EMERGENCY VEHICLE OPERATIONS

0.25 Unit/2.5 hours lecture, 5.5 hours laboratory for 1 week. P/NP Only. Limits on enrollment: Must possess basic POST certificate or equivalent
Description: This course is designed to train peace officers in the areas of technical driving on a skills course, collision avoidance simulations, and skid control techniques in the skid car based on the requirements set forth by the California Commission on Peace Officer Standards and Training (POST). Emergency response and pursuit

driving are also covered during this course. Each of the behind-the-wheel exercises is designed to improve current driving skills and develop confidence during emergency vehicle operation.
Legally Mandated Repetition

AJ 353 PUBLIC SAFETY DISPATCHER BASIC COURSE

2 Units/40 hours laboratory for 3 weeks. P/NP Only.
Description: This course will identify and specify the training necessary for entry level public safety dispatchers who have no prior training or limited experience in the area of dispatching. Issues addressed will consist of knowledge and skills necessary for dispatchers to meet minimum performance standards for entry level positions. The student will be introduced to the criminal justice system, the laws as they pertain to dispatchers and public safety, communication theory, telephone procedures, radio procedures, resource and referral services, critical incidents, and stress management.
Legally Mandated Repetition

AJ 354 PC 832 FIREARMS

0.5 Unit/3 hours lecture, 21 hours laboratory for 1 week. P/NP Only. Limits on enrollment: A criminal history check is required by state law (13511.5 Penal Code) for non-public safety agency personnel.
Description: This course fulfills the requirements of Section 832 of the Penal Code as mandated by the California Commission on Peace Officer Standards and Training (POST) for agencies authorizing the use of firearms. Firearms topics covered include care and maintenance, function, safety, shooting positions and fundamentals. Successful completion of a POSTaccuracy test is required for course completion.
Legally Mandated Repetition

AJ 355 PENAL CODE 832 POWERS OF ARREST COURSE

(Formerly AJ 221.9) 0.75 Unit/2.25 hours laboratory. P/NP Only.
Description: This course is an introduction to criminal law, laws of arrest, search and seizure and basic law enforcement principles and practices. It fulfills the arrest component of the training mandated by California Penal Code Section 832 (PC 832) for employment as a peace officer. The course is certified by the California Commission on Peace Officer Standards and Training (POST) and the State Standards and Training for Corrections Program (STC).
Legally Mandated Repetition

AJ 361 LAW ENFORCEMENT SUPERVISOR TECHNIQUES

(Formerly AJ 215.1) 2 Units/6.5 hours lecture, 33.5 hours laboratory for 2 weeks. P/NP Only. Limits on enrollment: Show proof of completion of basic police academy or equivalent.
Description: This course will provide the necessary training for supervisors of public safety agencies as mandated by the California Commission on Peace Officer Standards and Training (POST) and Standards and Training for Corrections (STC). This course will address leadership styles, supervision techniques, motivation, communication, problem solving and discipline issues.
Legally Mandated Repetition

AJ 363 HEALTH AND SAFETY CODE 11550 DRUG RECOGNITION

0.5 Unit/5 hours lecture, 11 hours laboratory for 1 week. P/NP Only. Limits on enrollment: Must show proof of Basic Police Academy or equivalent at Director's discretion.
Description: This course is designed to assist public safety personnel in identifying individuals who are under the

influence of drugs (H and S 11550). Public safety personnel will develop skills and confidence in evaluating individuals suspected of being under the influence of stimulants, depressants, dissociative anesthetics, hallucinogens, opiates, inhalants, cannabis, and alcohol. The course will also give the public safety officer a basic knowledge of other drug related matters with relation to history or drug abuse, new drug trends, 4th and 5th Amendment issues, officer safety, drug packaging, developing expert testimony, report writing techniques, and informant development tips.

AJ 364 CORRECTIONS OFFICER BASIC

4.5 Units/4 hours lecture, 36 hours laboratory for 5 weeks. P/NP Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Health or Safety Students must provide a medical clearance to participate in the academy physical conditioning program and physical performance tests.
Description: This Corrections Officer Basic Core (COBC) course presents the required training for entry level correctional officers as mandated by the Standards and Training for Corrections (STC), a state regulatory agency. Topics addressed consist of legal issues, communication, classification, contraband, booking, release of information, safety and security of facility and inmates, supervising inmates, report writing, record keeping, ethics, professionalism, physical training, defensive tactics, and restraint techniques. The Corrections Officer Basic Core course provides instruction and evaluation of all academic, physical, and behavioral traits required by the STC to meet the minimum standards to be employed as a correctional officer in the State of California.

AJ 365 PROBATION OFFICER

5.5 Units/2.5 hours lecture, 9 hours laboratory. P/NP Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Students must provide a medical clearance to participate in the academy physical conditioning program and physical performance test.
Description: The Probation Officer (PO) Core course presents the required training for entry level probation officers as mandated by the Standards and Training for Corrections (STC), a division of the Board of State and Community Corrections (BSCC), a state regulatory agency. Topics addressed include: the California Justice System, current trends and practices in probation, risk factors for the probationer, information gathering, court reports and presentations, case planning and supervision, transportation, use of force, personal safety, physical training, and defensive tactics. The Probation Officer Core course provides instruction and evaluation of all academic, physical, and behavioral traits required by the STC to meet the minimum standards to be employed as a probation officer in the State of California.

AJ 366 JUVENILE CORRECTIONS OFFICER CORE COURSE

(Formerly AJ 221.4) 5 Units/13 hours lecture, 13.5 hours laboratory, 13.5 hours by arrangement for 4 weeks. P/NP Only.
Description: The Juvenile Corrections Officer Core (JCO) course presents the required training for entry level juvenile corrections officers as mandated by the Standards and Training for Corrections (STC), a state regulatory agency. Topics addressed include: supervising juveniles, searching and maintaining security, investigating and detecting problems, report writing, record keeping, handling emergencies, counseling, interacting and communicating with juveniles, as well as people external to staff, interpersonal relations, physical training, defensive tactics, and restraint techniques. The Juvenile Corrections Officer Core course provides instruction and evaluation of all academic, physical, and behavioral traits required by the STC to meet the minimum standards to be employed as a juvenile corrections officer in the State of California.
Legally Mandated Repetition

AJ 368 BASIC HUMANE ACADEMY

2 Units/6.5 hours lecture, 33.5 hours laboratory for 2 weeks. P/NP Only.
Description: This course will assist students in the development of basic investigative techniques as they relate to the enforcement of California and Federal animal-related law. Students should be prepared to recognize basic care, neglect and abuse of animals, collect evidence, develop basic report writing skills, discuss courtroom testimony and demeanor, and work collaboratively with a team.
Legally Mandated Repetition

AJ 369 ADVANCED HUMANE ACADEMY

0.75 Unit/2.25 hours laboratory. P/NP Only. Recommended: Course Completion of AJ 299.88.
Description: This course will assist students in the development of advanced investigative techniques as they relate to the enforcement of California animal-related law. Students should be prepared to conduct a mock investigation, take photographs, write reports, collect evidence, work collaboratively with a team, and testify in a mock trial.
Legally Mandated Repetition

AJ 380.1 OFFICER TRAINING SKILLS AND TOPICS 1

0.25 Unit/3 hours lecture, 5 hours laboratory for 1 week. P/NP Only.
Description: This course covers basic skills and topics as identified by various public safety professions. It is designed for individuals interested in current laws or recent changes to federal, state, or local mandates. This course will also cover current skills and topics related to public safety training.
Legally Mandated Repetition

AJ 380.2 OFFICER TRAINING SKILLS AND TOPICS 2

0.25 Unit/16 hours laboratory for 1 week. P/NP Only.
Description: This course covers intermediate skills and topics as identified by various public safety professions. It is designed for individuals interested in more complex current laws or recent changes to federal, state, or local mandates. This course will also cover current skills and topics related to public safety training.
Legally Mandated Repetition

AJ 380.3 OFFICER TRAINING SKILLS AND TOPICS 3

0.25 Unit/24 hours laboratory for 1 week. P/NP Only.
Description: This course covers advanced skills and topics as identified by various public safety professions. It is designed for individuals interested in current laws or recent changes to federal, state, or local mandates. This course will also cover current skills and topics related to public safety training.
Legally Mandated Repetition

AJ 380.4 OFFICER TRAINING SKILLS AND TOPICS 4

0.5 Unit/8 hours laboratory for 4 weeks. P/NP Only.
Description: This course covers complex skills and topics as identified by various public safety professions. It is designed for individuals interested in current laws or recent changes to federal, state, or local mandates. This course will also cover current skills and topics related to public safety training.
Legally Mandated Repetition

AJ 380.5 OFFICER TRAINING SKILLS AND TOPICS 5

0.75 Unit/40 hours laboratory for 1 week. P/NP Only.
Description: This course focuses on the application of skills and topics as identified by various public safety professions related to current laws or recent changes to federal, state, or local mandates. This course will also cover current skills and topics related to public safety training.
Legally Mandated Repetition

AJ 380.6 OFFICER TRAINING SKILLS AND TOPICS 6

0.75 Unit/24 hours laboratory for 2 weeks. P/NP Only.
Description: This course covers multiple skills and topics as identified by various public safety professions. It is designed for individuals interested in current laws or recent changes to federal, state, or local mandates. This course will also cover current skills and topics related to public safety training.
Legally Mandated Repetition

AJ 380.7 OFFICER TRAINING SKILLS AND TOPICS 7

1 Unit/28 hours laboratory for 2 weeks. P/NP Only.
Description: This course covers intensive and multiple skills and topics as identified by various public safety professions. It is designed for individuals interested in current laws or recent changes to federal, state, or local mandates. This course will also cover current skills and topics related to public safety training.
Legally Mandated Repetition

AJ 380.8 OFFICER TRAINING SKILLS AND TOPICS 8

1 Unit/32 hours laboratory for 2 weeks. P/NP Only.
Description: This course bridges a variety of skills and topics as identified by various public safety professions. It is designed for individuals interested in current laws or recent changes to federal, state, or local mandates. This course will also cover current skills and topics related to public safety training.
Legally Mandated Repetition

AJ 715 AJ SPECIAL TOPICS

0 Unit/6 hours by arrangement. Non-Credit Course. Limits on enrollment: Admission to Program
Description: Students who are not meeting the minimum psychomotor, knowledge or performance criteria for State or Federally certified law enforcement or correction courses will use the computer lab/simulators, psychomotor skills practice, performance practice, and instructor led reviews (at a self-paced rate) to meet the standards of these courses.
Exempt From Repeat Provisions

ADULT EDUCATION (ADLTED)

ADLTED 501 BASIC ACADEMIC SKILLS AND GED PREPARATION - READING 1

(Formerly CSKLS 501) 0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Instruction and individualized learning plans are provided for preparation for the GED and other High School Equivalency (HSE) tests. Course also provides academic skills development in preparation for English

placement tests; credit English Pathway classes; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. First level reading course covers reading and study strategies at beginning levels of reading comprehension and vocabulary development, as determined through initial assessment.
Exempt From Repeat Provisions

ADLTED 502 BASIC ACADEMIC SKILLS AND GED PREPARATION - READING 2

(Formerly CSKLS 502) 0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 501 (or CSKLS 501)Course Completion of ADLTED 501 (or CSKLS 501).
Description: Instruction and individualized learning plans are provided for preparation for the GED and other High School Equivalency (HSE) tests. Course also provides academic skills development in preparation for English placement tests; credit English Pathway classes; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. Second level reading course covers intermediate reading and study strategies, reading comprehension, and vocabulary development, as determined through initial assessment.
Exempt From Repeat Provisions

ADLTED 503 BASIC ACADEMIC SKILLS AND GED PREPARATION - READING 3

(Formerly CSKLS 503) 0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 502 (or CSKLS 502)Course Completion of ADLTED 502 (or CSKLS 502)Course Completion of ADLTED 502 (or CSKLS 502).
Description: Instruction and individualized learning plans are provided for preparation for the GED and other High School Equivalency (HSE) tests. Course also provides academic skills development in preparation for English placement tests; credit English Pathway classes; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. Third level reading course covers reading and study strategies, reading comprehension, and vocabulary development at a high school level, as determined through initial assessment.
Exempt From Repeat Provisions

ADLTED 511 BASIC ACADEMIC SKILLS AND GED PREPARATION - WRITING 1

(Formerly CSKLS 511) 0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Instruction and individualized learning plans are provided for preparation for the GED and other High School Equivalency (HSE) tests. Course also provides academic skill development in preparation for English placement tests; English Pathway classes; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. First level course covers sentence and paragraph skills, punctuation and editing for grammar errors, basic principles of organization for written communication, and computer skills, as determined through initial assessment.
Exempt From Repeat Provisions

ADLTED 512 BASIC ACADEMIC SKILLS AND GED PREPARATION - WRITING 2

(Formerly CSKLS 512) 0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 511 (or CSKLS 511).
Description: Instruction and individualized learning plans are provided for preparation for the GED and other High

School Equivalency (HSE) tests. Course also provides academic skill development in preparation English placement tests; English Pathway classes; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. Second level course covers, sentence and paragraph skills at an intermediate level, punctuation and editing for grammar errors, basic principles of organization for written communication, and computer skills, as determined through initial assessment.
Exempt From Repeat Provisions

ADLTED 513 BASIC ACADEMIC SKILLS AND GED PREPARATION - WRITING 3

(Formerly CSKLS 513) 0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 512 (or CSKLS 512)Course Completion of ADLTED 512 (or CSKLS 512)Course Completion of ADLTED 512 (or CSKLS 512).
Description: Instruction and individualized learning plans are provided for preparation for the GED and other High School Equivalency (HSE) tests. Course also provides academic skills development in preparation English placement tests; English Pathway classes; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. Third level course covers sentence and paragraph skills, punctuation and editing for grammar errors, basic principles of organization for written communication as related to GED and HSE related tests, and computer skills, as determined through instructor's initial assessment.
Exempt From Repeat Provisions

ADLTED 521 BASIC ACADEMIC SKILLS AND GED PREPARATION - MATH 1

(Formerly CSKLS 521) 0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Instruction and individualized learning plans are provided for preparation for the mathematics sections of the GED (General Educational Development) and other HSE (High School Equivalency) tests. First level course covers math computation for whole numbers and decimals. Includes computer skills as necessary for online practice and test-taking. Course also provides math skills development in preparation for credit Math Pathway classes; CTE (Career Technical Education) classes; and Basic Academic Skills Certificate of Completion.
Exempt From Repeat Provisions

ADLTED 522 BASIC ACADEMIC SKILLS AND GED PREPARATION - MATH 2

(Formerly CSKLS 522) 0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 521 (or CSKLS 521).
Description: Instruction and individualized learning plans are provided for preparation for the mathematics sections of the GED (General Educational Development) and other HSE (High School Equivalency) tests. Second level course covers pre-algebra topics. Course also provides academic skills development in preparation for math; credit Math Pathway classes; CTE (Career Technical Education) classes; and Basic Academic Skills Certificate of Completion.
Exempt From Repeat Provisions

ADLTED 523 BASIC ACADEMIC SKILLS AND GED PREPARATION - MATH 3

(Formerly CSKLS 523) 0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 522 (or CSKLS 522).
Description: Instruction and individualized learning plans are provided for preparation for the math sections of the GED (General Educational Development) and other HSE (High School Equivalency) tests. Third level course covers

beginning algebra and geometry. Course also provides math skills development in preparation for credit Math Pathway classes; CTE (Career Technical Education) classes; and Basic Academic Skills Certificate of Completion.
Exempt From Repeat Provisions

ADLTED 531 BASIC ACADEMIC SKILLS AND GED PREPARATION--SCIENCE 1

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Instruction and individualized learning plans are provided for preparation for the GED and other High School Equivalency (HSE) tests. Course also provides academic skills development in preparation for: credit science courses; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. First level of science course covers the Life Sciences, as determined through initial assessment.
Exempt From Repeat Provisions

ADLTED 532 BASIC ACADEMIC SKILLS AND GED PREPARATION--SCIENCE 2

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Instruction and individualized learning plans are provided for preparation for the GED and other High School Equivalency (HSE) tests. Course also provides academic skills development in preparation for: credit science courses; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. Second level of science course covers Earth and Space Science, as determined through initial assessment.
Exempt From Repeat Provisions

ADLTED 533 BASIC ACADEMIC SKILLS AND GED PREPARATION--SCIENCE 3

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Instruction and individualized learning plans are provided for preparation for the GED and other High School Equivalency (HSE) tests. Course also provides academic skills development in preparation for: credit science courses; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. Third level of science course covers Physical Science, as determined through initial assessment.
Exempt From Repeat Provisions

ADLTED 541 BASIC ACADEMIC SKILLS AND GED PREPARATION--SOCIAL SCIENCE 1

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Instruction and individualized learning plans are provided for preparation for the GED and other High School Equivalency (HSE) tests. Course also provides academic skills development in preparation for: credit social science courses; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. First level of social science course covers United States History and Civics and Government, as determined through initial assessment.
Exempt From Repeat Provisions

ADLTED 542 BASIC ACADEMIC SKILLS AND GED PREPARATION--SOCIAL SCIENCE 2

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Instruction and individualized learning plans are provided for preparation for the GED and other High School Equivalency (HSE) tests. Course also provides academic skills development in preparation for: credit social science courses; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. Second level of social science course covers Economics and Geography, as determined through initial assessment.
Exempt From Repeat Provisions

ADLTED 570.1 WRITING AND READING IMPROVEMENT FOR TEST PREPARATION

0 Unit/2 hours laboratory for 9 weeks. Non-Credit Course.
Description: Students will receive supplemental instruction in basic English skills. Supports students needing remediation of basic English reading, writing and essay exam completion.
Exempt From Repeat Provisions

ADLTED 570.2 GRAMMAR IMPROVEMENT FOR TEST PREPARATION

0 Unit/2 hours laboratory for 9 weeks. Non-Credit Course.
Description: Students will receive supplemental instruction in basic English reading and writing skills. Supports students needing remediation of basic English grammar and reading comprehension.
Exempt From Repeat Provisions

ADLTED 601 UNDERSTANDING THE ADULT LEARNER: TEACH/LEARN MODALITIES

0 Unit/4 hours laboratory for 2 weeks. Non-Credit Course.
Description: This course is designed to introduce potential or new teachers to the special needs and learning modalities of adult learners. Topics will focus on the differences between K-12 teaching and Adult Education in a higher education setting.
Exempt From Repeat Provisions

ADLTED 602 CREATING COURSE MANAGEMENT DOCUMENTS

0 Unit/8 hours laboratory for 1 week. Non-Credit Course.
Description: This course is designed to introduce potential or new teachers to course management documents and college policies as related to adult education classes in a higher education setting.
Exempt From Repeat Provisions

ADLTED 603 LESSON PLANNING: TIME MANAGEMENT AND TRANSITIONS

0 Unit/4 hours laboratory for 2 weeks. Non-Credit Course.
Description: This course is designed to introduce potential or new teachers to lesson planning as it relates to Adult Education in a higher education setting.
Exempt From Repeat Provisions

ADLTED 604 DESIGNING ASSIGNMENTS TO MEET LEARNING OBJECTIVES

0 Unit/4 hours laboratory for 2 weeks. Non-Credit Course.
Description: This course is designed to introduce potential or new teachers to designing lessons to meet learning objectives as they relate to Adult Education in a higher education setting.
Exempt From Repeat Provisions

ADLTED 605 ASSESSMENT TECHNIQUES

0 Unit/8 hours laboratory for 1 week. Non-Credit Course. Recommended: Course Completion of ADLTED 601.
Description: This course is designed to introduce new or potential teachers to the special needs and learning modalities of adult learners. Topics will focus on assessment techniques as they relate to Adult Education in a higher education setting.
Exempt From Repeat Provisions

ADLTED 606 SCAFFOLDING FOR LOW LITERACY LEARNERS

0 Unit/8 hours laboratory for 2 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 601.
Description: This course is designed to introduce new or potential teachers to the special needs and learning modalities of adult learners. Topics will focus on scaffolding strategies for use in Adult Education in a higher education setting.
Exempt From Repeat Provisions

ADLTED 607 TECHNOLOGY IN THE ADULT EDUCATION CLASSROOM

0 Unit/8 hours laboratory for 2 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 601.
Description: This course is designed to introduce new or potential teachers in Adult Education Programs to the concepts and techniques involved in technology-mediated teaching in a higher education setting.
Exempt From Repeat Provisions

ADLTED 608 CLASSROOM MANAGEMENT TECHNIQUES

0 Unit/8 hours laboratory for 2 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 601.
Description: This course is designed to introduce new or potential teachers of Adult Education and Career Technical Education to the concepts and techniques involved in classroom management in a higher education setting.
Exempt From Repeat Provisions

ADLTED 609 TEACHING TO COLLEGE AND CAREER READINESS

0 Unit/8 hours laboratory for 2 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 601Course Completion of ADLTED 601.
Description: This course is designed to introduce new or potential teachers in Adult and Career Technical Education programs to the laws and guidelines for college and career readiness as they are applied in a higher education setting.
Exempt From Repeat Provisions

ADLTED 610 CAREER EDUCATION TEACHING STRATEGIES

0 Unit/4 hours laboratory for 2 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 601Course Completion of ADLTED 601Course Completion of ADLTED 601Course Completion of ADLTED 601Course Completion of ADLTED 601.
Description: This course provides an overview of Career Education (CE) programs and expectations to content

area experts in private industry and governmental positions to apply for adjunct teaching jobs in Adult Education and Career Education departments. Topics focus on strategies for teaching in CE areas as well as understanding Non-credit Adult Education CE learners.
Exempt From Repeat Provisions

ADLTED 611 TEAM TEACHING PRACTICES

0 Unit/8 hours laboratory for 2 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 601.
Description: This course is designed to introduce new or potential teachers to the benefits and demands of team teaching in Adult Education and Career Technical Education Programs in a higher education setting.
Exempt From Repeat Provisions

ADLTED 613 STRATEGIES FOR TEACHING STUDENTS WITH DISABILITIES

0 Unit/8 hours laboratory for 1 week. Non-Credit Course. Recommended: Course Completion of ADLTED 601Course Completion of ADLTED 601Course Completion of ADLTED 601.
Description: This course is designed to introduce new or potential teachers in Adult Education and Career Technical Education Programs to working with students with disabilities in a higher education setting. Topics will cover: laws and regulations, types of disabilities and appropriate/legal accommodations, and strategies for working with students with disabilities.
Exempt From Repeat Provisions

ADLTED 614 CONSUMER AWARENESS IN COLLEGIATE ATHLETICS

0 Unit/4 hours laboratory for 3 weeks. Non-Credit Course.
Description: This course is designed to introduce community members to information, resources, issues, and typical situations related to collegiate athletics.The course will also cover decision making strategies used to make informed choices related to athletic and academic success.This includes goal-setting and how to be a successful consumer and shopper in relation to the marketplace of collegiate athletics.The course will cover how individuals and their families can identify, access and use college resources available for student-athletes at both the lower and upper division college levels. In addition, an understanding of issues related to the recruiting and transfer process will be covered.
Exempt From Repeat Provisions

ADLTED 721 WORKPLACE ARITHMETIC--PART 1

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Instruction in basic operations of whole numbers, fractions, decimals. Application of math concepts and problem-solving strategies to specific trades and industries.
Exempt From Repeat Provisions

ADLTED 722 WORKPLACE ARITHMETIC--PART 2

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Instruction in basic operations with decimals, fractions, percents and conversions among them as related to various trades and industries. Application of measurement systems and metric system and basic principles of geometry to work-related tasks. Interpreting data in charts and graphs as related to specific career and technical fields.
Exempt From Repeat Provisions

ADLTED 723 FINANCIAL MATHEMATICS

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course.
Description: This course applies mathematical computation with decimals, fractions, and percents to personal finances, including budgeting, saving, and planning for future financial security.
Exempt From Repeat Provisions

ADLTED 724 BUSINESS MATHEMATICS USING EXCEL

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: This course presents basic math as applied to business solutions using Excel including: banking, pricing, cash and trade discounts, payroll, and calculating interest and depreciation.
Exempt From Repeat Provisions

ADLTED 730 FIRST AID, CPR, AED AND BLOODBORNE PATHOGENS

0 Unit/4 hours laboratory for 2 weeks. Non-Credit Course.
Description: This course teaches basics of CPR, AED and First Aid emergency response skills which enable participants to give immediate care to a person who has been injured or is experiencing a sudden illness. Satisfies first-time and renewal certifications. This course does not satisfy the requirement for health care providers.
Exempt From Repeat Provisions

ADLTED 731.1 CHILD CARE PROVIDER 1: PROFESSIONAL OPERATIONS AND LICENSING

0 Unit/3.25 hours laboratory for 8 weeks. Non-Credit Course.
Description: Introduction to requirements for obtaining a license as a family home care provider. The course focuses on the National Association for Education of Young Children (NAEYC) code of ethical conduct and the Ten Program Standards as well as California's licensing procedures. Topics emphasize professionalism, health and safety, nutrition, and licensing regulations.
Exempt From Repeat Provisions

ADLTED 731.2 CHILD CARE PROVIDER 2: CURRICULUM AND PROGRAM DEVELOPMENT

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course completion of ADLTED 731.1.
Description: Introduction to developmentally appropriate and culturally relevant curriculum in early childhood settings (birth to age 8). Students will develop age-appropriate activities and plan effective learning environments for children in a family child day care setting.
Exempt From Repeat Provisions

ADLTED 731.3 CHILD CARE PROVIDER 3: CHILD DEVELOPMENT

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course completion of ADLTED731.1 and ADLTED731.2.
Description: Introduction to the theories of child development and developmental milestones that guide healthy growth and development of children from birth to age 8. The role of the child care provider as a communicator with families and children will be explored.
Exempt From Repeat Provisions

ADLTED 734A YOUTH IN OUT-OF-HOME CARE 1

0 Unit/2 hours laboratory for 6 weeks. Non-Credit Course.
Description: This course is required for Sonoma County residents interested in becoming foster, adoptive, kinship, or non-relative families who are providing homes for foster children. Topics include: an overview of the child protective services and the court system; working with children who have been traumatized; building positive interactions with birth parents; sharing information with social workers and parents; and helping children return home or move to another placement.
Exempt From Repeat Provisions

ADLTED 734B YOUTH IN OUT-OF-HOME CARE 2

0 Unit/2 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 734A.
Description: This course is required for Sonoma County residents interested in becoming foster, adoptive parents, kinship or non-relative families who are providing homes for foster children. Part II focuses on longer-term issues of raising children with trauma, attachment disorders, fetal alcohol syndrome disorder, and other substance exposed disorders.
Exempt From Repeat Provisions

ADLTED 735.1 EARLY START DEVELOPMENTAL SCREENING TOOLS

0 Unit/4 hours laboratory for 4 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 734B.
Description: This course is designed for new parents, foster parents, home day-care providers, and caregivers of children 36 months old or less. Course addresses normal developmental stages and provides students opportunities to practice identifying delays in various kinds of development.
Exempt From Repeat Provisions

ADLTED 735.2 TRAUMA INFORMED RELATIONSHIPS--PART 1

0 Unit/2 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 734A.
Description: This course is designed to help make sense of the often intense, unusual, and hard-to-understand behaviors of traumatized children at home or at school. This is the second of a two-part sequence in a certificate offered for foster, adoptive, and kinship caregivers for children in out-of-home care, as well as any mandated reporter who works with school-aged children dealing with trauma.
Exempt From Repeat Provisions

ADLTED 735.3 TRAUMA INFORMED RELATIONSHIPS--PART 2

0 Unit/2 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 734B and ADLTED 735.2.
Description: This course is designed to help make sense of the often intense, unusual, and hard-to-understand behaviors of traumatized children at home or at school. Part Two of this sequence focuses in greater detail on the physical, emotional, and psychological impacts of trauma on the central nervous system.
Exempt From Repeat Provisions

ADLTED 736A MEDICALLY FRAGILE INFANTS--PART 1

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 734BCourse Completion of ADLTED 734BCourse Completion of ADLTED 734B.
Description: This course is intended for caregivers, foster, kinship and adoptive parents, home day care providers, educators, and any mandated reporters who assist in the care of medically fragile infants. This is the first in a two-

part series; the second part includes a practicum using baby simulators and visiting with medically fragile infants and their caregivers when available.
Exempt From Repeat Provisions

ADLTED 736B MEDICALLY FRAGILE INFANTS--PART 2 PRACTICUM

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Prerequisite: Course Completion of ADLTED 736A.
Description: This course is intended for caregivers, foster, kinship and adoptive parents, home day care providers, educators, and any mandated reporter who assists in the care of medically fragile infants. This is the second in a two-part series; the second part is a practicum using baby simulators. Students will also visit and observe medically fragile infants and their caregivers, if and when they are available during the timeframe of the course.
Exempt From Repeat Provisions

ADLTED 737.1 PERSONAL CARE ATTENDANT 1: BASIC CARE

0 Unit/6 hours laboratory for 8 weeks. Non-Credit Course.
Description: Introduction to entry-level Personal Care Attendant skills, including non-medically directed personal care and home management activities. Emphasis is on understanding and working with older patients, caregiver ethics and skills, home safety, physical movement, communication, nutrition, medical guidelines, elder and dependent adult abuse, and workforce preparation.
Exempt From Repeat Provisions

ADLTED 737.2 PERSONAL CARE ATTENDANT 2: DEMENTIA AND END OF LIFE CARE

0 Unit/6 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 737.1Course Completion of ADLTED 737.1Course Completion of ADLTED 737.1.
Description: Introduction to caregiving skills for patients with dementia, including Alzheimer's disease. Emphasis is on types and causes of dementia, principles of end-of-life care, advanced planning, emotional issues related to death and dying, cultural diversity as related to death and dying, and community resources to support families and caregivers.
Exempt From Repeat Provisions

ADLTED 737.3 PERSONAL CARE ATTENDANT 3: PRACTICUM

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Completion of ADLTED 737.1 and 737.2.
Description: This course provides students with opportunities to interact with patients/clients in a variety of care settings. The focus of the course is on understanding and learning to work with a variety of patients/clients in order to better adapt to the care setting.
Exempt From Repeat Provisions

ADLTED 740 OSHA 10 CERTIFICATION PREPARATION

0 Unit/2 hours laboratory for 6 weeks. Non-Credit Course.
Description: This industrial and construction safety course is intended to provide entry level workers a general awareness in recognizing and preventing hazards on a job site. Occupational Safety Health Association (OSHA) recommends Safety Certification Training Program courses as an orientation to occupational safety and health for workers covered by OSHA standards, on the specific hazards of the job. Upon successful completion of the course, participants will receive a 10-hour Construction Safety Certification completion card.
Exempt From Repeat Provisions

ADLTED 741 FORKLIFT OPERATION--SITTING AND STANDING

0 Unit/4 hours laboratory for 2 weeks. Non-Credit Course.
Description: Students will learn how to drive a forklift safely, sitting and standing, and will practice operating a forklift.
Exempt From Repeat Provisions

ADLTED 742.1 HARDSCAPING 1: IRRIGATION AND NON-PLANT FEATURES

0 Unit/5 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Concurrent Enrollment in ADLTED 745.3Concurrent Enrollment in ADLTED 745.3.
Description: Introduction to non-plant landscaping with emphasis on industry-specific terminology related to water use. Students will practice communication skills using common phrases for interacting with clients or future employers. Topics include landscape planning, irrigation systems, graywater and stormwater capture, tools, air quality, workplace safety, and employment opportunities.
Exempt From Repeat Provisions

ADLTED 742.2 HARDSCAPING 2: NON-PLANT FEATURES

0 Unit/5 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 744Course Completion of ADLTED 744.
Description: This course is an introduction to the different types of hardscaping non-plant features such as walls, pathways, fences, seating, decks, and pergolas and gazebos. Students will also learn to read and interpret a landscape design plan.
Exempt From Repeat Provisions

ADLTED 743 SOFTSCAPE: PLANTS AND ENVIRONMENTAL CONDITIONS

0 Unit/5 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Concurrent Enrollment in ADLTED 745.3.
Description: Introduction to green gardening and landscaping with emphasis on occupation-specific terminology and communication skills using common phrases for interacting with clients or future employers. Topics include plant identification, selection and care, plant irrigation needs, landscaping plans, safe use of hand and power tools, and workplace readiness.
Exempt From Repeat Provisions

ADLTED 744 SURVEY OF THE BUILDING TRADES AND CONSTRUCTION INDUSTRY

0 Unit/5 hours laboratory for 10 weeks. Non-Credit Course.
Description: Overview of the construction industry, the building design process, construction project process, and roles and responsibilities of those involved: clients, architects, engineers, contractors, project managers, technicians, sub-contractors, workers, suppliers, regulatory agencies, bankers, lawyers, and the public. Includes an overview of career opportunities.
Exempt From Repeat Provisions

ADLTED 745.1 COMMUNICATION FOR CONSTRUCTION TRADES PART 1

0 Unit/3 hours laboratory for 5 weeks. Non-Credit Course.
Description: Introduction to construction terminology and its use in a practical setting. Students will develop reading, writing, speaking, and listening skills for use on the job in the construction trades.
Exempt From Repeat Provisions

ADLTED 745.2 COMMUNICATION FOR CONSTRUCTION TRADES PART 2

0 Unit/3 hours laboratory for 5 weeks. Non-Credit Course. Recommended: Completion of ADLTED 745.1.
Description: Second part of introduction to construction terminology and its use in a practical setting. Students will develop reading, writing, speaking and listening skills, as well as an understanding of non-verbal cues for use on the job in the construction trades.
Exempt From Repeat Provisions

ADLTED 745.3 COMMUNICATION FOR LANDSCAPING TRADES

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Concurrent Enrollment in ADLTED 742 and ADLTED 743.
Description: Introduction to landscaping and horticultural terminology and its use in a practical setting. Students will develop reading, writing, speaking, listening skills, as well as an understanding of non-verbal cues for use on the job in the landscaping trades.
Exempt From Repeat Provisions

ADLTED 746 INTRODUCTION TO PLAN READING FOR BUILDING TRADES

0 Unit/5 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 744; AND Course Completion of ADLTED 721 OR ADLTED 722.
Description: Introduction to reading and interpreting construction plan views, section cuts, elevations, and details for construction purposes. Instruction includes how to accurately apply measurements in drawings to varying scales and estimate material quantities for projects from building plans.
Exempt From Repeat Provisions

ADLTED 748.1 EDIBLE LANDSCAPING

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 744.
Description: An introduction to designing, growing, and harvesting edible plants in the landscape with a focus on fruits and vegetables.
Exempt From Repeat Provisions

ADLTED 748.2 INTRODUCTION TO NURSERY OPERATIONS

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 744.
Description: Introduction to plant propagation and production practices with emphasis on nursery operations.
Exempt From Repeat Provisions

ADLTED 748.3 INTRODUCTION TO VEGETATION MANAGEMENT FOR FIRE PREVENTION

0 Unit/6 hours laboratory for 4 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 740.
Description: This course is designed to introduce students to the basics of vegetation management for fire prevention. Topics will include: fire behavior; fire prevention regulations, standards, and enforcement; fire

prevention techniques, safety and tools use. Working under the supervision of landscape professionals, students will clear particular selected site(s) as appropriate.
Exempt From Repeat Provisions

ADLTED 748.4 INTRODUCTION TO TREE MAINTENANCE AND PRUNING

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course.
Description: Students will learn and practice the basics of tree pruning and maintenance.
Exempt From Repeat Provisions

ADLTED 748.5 INTRODUCTION TO SPRINKLER REPAIR AND MAINTENANCE

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 742.1 (or ADLTED 742)Course Completion of ADLTED 742.1 (or ADLTED 742)Course Completion of ADLTED 742.1 (or ADLTED 742).
Description: This course introduces students to the basics of irrigation systems with particular focus on: repairing sprinklers and damaged lines; raising, lowering, and relocating sprinkler heads; troubleshooting the main assembly.
Exempt From Repeat Provisions

ADLTED 749.1 OSHA 30--CONSTRUCTION INDUSTRY PROCEDURES

0 Unit/6 hours laboratory for 10 weeks. Non-Credit Course.
Description: The Occupational Safety and Health Administration (OSHA) Outreach Training Program for the Construction Industry teaches construction workers about their rights, employer responsibilities, how to file a complaint, as well as how to identify, abate, avoid, and prevent job-related hazards. Course satisfies the 30-hour requirement for construction industry training.
Exempt From Repeat Provisions

ADLTED 749.2 OSHA 30--GENERAL INDUSTRY PROCEDURES

0 Unit/6 hours laboratory for 6 weeks. Non-Credit Course.
Description: The Occupational Safety and Health Administration (OSHA) Outreach Training Program for the General Industry teaches workers about their rights, employer responsibilities, how to file a complaint, as well as how to identify, abate, avoid, and prevent job-related hazards. Course satisfies the 30-hour requirement for general industry training.
Exempt From Repeat Provisions

ADLTED 751 HOW TO START A SMALL BUSINESS

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: This course is an overview of knowledge, skills, and requirements needed to start a small business. Students will analyze the requirements for success in business, assess risks and rewards, examine legal considerations, and ascertain the best use of professional assistance.
Exempt From Repeat Provisions

ADLTED 752 SMALL BUSINESS FINANCING

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Overview of the financial aspects of operating a small business. Topics include: credit and personal budgeting; financial record-keeping; managing cash flow; banking; choosing an adequate record-keeping system;

and financing a small business.
Exempt From Repeat Provisions

ADLTED 753 MARKETING FOR A SMALL BUSINESS

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 751 and ADLTED 752.
Description: This course provides an overview of successful marketing strategies for small start-up businesses. Students learn to examine and analyze consumer behavior, identify target market segments, price for profitability, and select promotional tactics. The course emphasizes the integration of these marketing functions into an effective marketing plan.
Exempt From Repeat Provisions

ADLTED 756 MANAGING A SMALL BUSINESS

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: This course is designed for students who are interested in improving and growing their small business. Topics will cover the responsibilities of being a small business owner, including: leadership development, business dynamics, sales and service, finances and human resources.
Exempt From Repeat Provisions

ADLTED 761.1 BASIC COMPUTER OPERATIONS 1: COMPUTER OPERATIONS

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Introduction to the basic functions and uses of the computer, including: using the keyboard and mouse; browsing the internet and online purchasing; creating an email account for sending and receiving messages.
Exempt From Repeat Provisions

ADLTED 761.2 BASIC COMPUTER OPERATIONS 2: BEGINNING MS WORD PROCESSING

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 761.1.
Description: Introduction to basic functions and uses of the computer related to using a computer for more complex email actions and introductory word processing using MS Word.
Exempt From Repeat Provisions

ADLTED 761.3 BASIC COMPUTER OPERATIONS 3: FORMAT MS WORD & EMAIL GROUPS

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED761.2.
Description: Introduction to the basic functions and uses of the computer, including: creating and editing email contacts and distribution lists; creating and using folders in Gmail; formatting MS Word texts of paragraphs in documents; and attaching pictures and other objects to MS Word documents.
Exempt From Repeat Provisions

ADLTED 761.4 BASIC COMPUTER OPERATIONS 4: GOOGLE CALENDAR AND MS WORD

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 761.3.
Description: Introduction to the basic functions and uses of the computer, including: creating events and invitations in the Google calendar program; formatting texts of paragraphs in documents, and creating flyers and invitations in MS Word.
Exempt From Repeat Provisions

ADLTED 761.5 BASIC COMPUTER OPERATIONS 5: MS WORD, GOOGLE DOCS, EXCEL

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED761.4.
Description: Introduction to the basic functions and uses of the computer, including: using more complex MS Word processing operations; basic principles of Google Docs and Excel.
Exempt From Repeat Provisions

ADLTED 761.6 BASIC COMPUTER OPERATIONS 6: BASIC EXCEL AND GOOGLE SHEETS

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 761.5.
Description: Introduction to the basic functions and uses of the computer, including: Google Sheets and Google Drive; creating formulas in Excel; creating and formatting graphs in Excel.
Exempt From Repeat Provisions

ADLTED 764 INTRODUCTION TO STUDENT INFORMATION SYSTEMS

0 Unit/3 hours laboratory for 2 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 761.1 (or ADLTED 761).
Description: Introduction to the basic functions and uses of the computer as they relate to using a school district's programs, website, and student information systems.
Exempt From Repeat Provisions

ADLTED 765.1 BASIC KEYBOARDING, PART 1

0 Unit/3 hours laboratory for 4 weeks. Non-Credit Course.
Description: Introduction to and reinforcement of touch typing skills for word-processing.
Exempt From Repeat Provisions

ADLTED 765.2 BASIC KEYBOARDING, PART 2

0 Unit/3 hours laboratory for 4 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 765.1.
Description: Introduction and reinforcement of touch typing skills, spacing rules, document formatting, basic grammar, proofreading and editing.
Exempt From Repeat Provisions

ADLTED 766.1 WORKFORCE PREPARATION 1: SOFT SKILLS IN THE WORKPLACE

0 Unit/2 hours laboratory for 6 weeks. Non-Credit Course.
Description: This is the first in a three-part series in workforce preparation. This courses focuses on soft skills and communication in the workplace.
Exempt From Repeat Provisions

ADLTED 766.2 WORKFORCE PREPARATION 2: LIFELONG LEARNING/PROFESSIONALISM

0 Unit/2 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 766.1.
Description: This is the second in a three-part series in workforce preparation. This course focuses on lifelong learning and professionalism in the workplace.
Exempt From Repeat Provisions

ADLTED 766.3 WORKFORCE PREPARATION 3: COMMUNICATION, CUSTOMER SERVICE

0 Unit/2 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 766.1 and ADLTED 766.2.
Description: This is the third in a three-part series in workforce preparation. This course focuses on communication, customer service, and conflict resolution.
Exempt From Repeat Provisions

ADLTED 766.4 WORKFORCE PREPARATION 4: COLLEGE TRANSITIONS TO CAREERS

0 Unit/4 hours laboratory for 8 weeks. Non-Credit Course.
Description: This course is designed to show students the pathway from education to jobs and careers. It will introduce students to the necessary information, resources, choices, strategies, and decision-making processes used to transition to a variety of post-secondary educational programs. The course will cover how to identify and use college resources available at both the two-year and four-year colleges. Students will learn how to market their skills, talents, and educational attainments to potential employers.
Exempt From Repeat Provisions

ADLTED 766.5 WORKFORCE PREPARATION 5: TRANSITION TO CAREERS

0 Unit/4 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 766.4Course Completion of ADLTED 766.4.
Description: This course is designed to introduce students to the necessary information, resources, choices, strategies, and decision-making processes used to transition to career and post-secondary education programs and majors leading to careers. Students will gain a better understanding of the recruiting practices of industry and public employers. Students will learn how to market their skills, talents, and educational attainments to career training programs and potential employers.
Exempt From Repeat Provisions

ADLTED 766.6 WORKFORCE PREPARATION 6: INTRODUCTION TO WORKPLACE ENGLISH

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course.
Description: This course is an overview of basic English fundamentals emphasizing correct grammatical usage, correct sentence construction, punctuation, spelling, proofreading, and editing as they relate to workplace writing.
Exempt From Repeat Provisions

ADLTED 766.7 WORKFORCE PREPARATION 7: INTRODUCTION TO WORKPLACE WRITING

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 766.6Course Completion of ADLTED 766.6.
Description: Students will use common workplace vocabulary and terms, as they apply to writing in sentences, paragraphs, and short letters, memos, instructions, or emails. This course includes a review of basic English fundamentals emphasizing correct grammatical usage, correct sentence construction, punctuation, and spelling.
Exempt From Repeat Provisions

ADLTED 771 CUSTOMER SERVICE

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Introduction to principles and techniques for delivering outstanding customer service. Covers the attributes of customer service-oriented businesses and development of appropriate customer service skills.
Exempt From Repeat Provisions

ADLTED 772 INTRODUCTION TO TOURISM AND HOSPITALITY

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 771.
Description: This course is designed to prepare students for entry-level careers in the hospitality industry. Course includes discussion of: types of tourism and hospitality; food and lodging; resorts; tourism enterprises, attractions, and related operations; and workforce preparation.
Exempt From Repeat Provisions

ADLTED 773 SONOMA COUNTY TOURISM AMBASSADOR CERTIFICATION

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 772.
Description: This course offers an overview of the tourism industry in California, with particular emphasis on Sonoma County. Students will learn the elements of tourism, their importance to the local economy, as well as information, resources, and experiences that enhance visitors experiences and increase tourism activity in the county. This course provides the opportunity to sit for the Certified Tourism Ambassador exam from the Sonoma County Tourism Bureau.
Exempt From Repeat Provisions

ADLTED 774 GREEN HOTEL SERVICE WORK

0 Unit/6 hours laboratory for 12 weeks. Non-Credit Course.
Description: Preparation for entry level employment as a hotel service worker with an emphasis on green housekeeping. Training in safety, use of tools, equipment, chemicals, materials and supplies, and proper application of dusting, sweeping, mopping, various floor machines, specialized equipment. Other topics include basic customer service, hotel/motel systems for cleaning, sanitizing, and arranging rooms, hallways, and other hospitality areas.
Exempt From Repeat Provisions

ADLTED 780 INTRODUCTION TO RESTAURANT SERVICES

0 Unit/3 hours laboratory for 6 weeks. Non-Credit Course.
Description: Introduction to the fundamentals of the culinary arts, including history, terminology, and employment opportunities, job descriptions and requirements for particular jobs. Course provides an overview of the food service industry from fast food to haute cuisine, including institutional feeding programs.
Exempt From Repeat Provisions

ADLTED 781 INTRODUCTION TO CULINARY MATH PART 1

0 Unit/2 hours laboratory for 6 weeks. Non-Credit Course.
Description: Application of basic arithmetic operations and problem-solving strategies to the culinary industry. Includes fractions, decimals, ratio and proportion; measurement systems for weight and volume; estimation; use of a scientific calculator.
Exempt From Repeat Provisions

ADLTED 782 INTRODUCTION TO CULINARY MATH PART 2

0 Unit/2 hours laboratory for 6 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 781.
Description: Application of intermediate arithmetic skills, including percents, conversions, formulas, and measurement systems as related to the culinary industry. Develops problem solving skills for tasks such as yield percentages, edible portion costs, and other applied math areas common to the food service field.
Exempt From Repeat Provisions

ADLTED 783 WORKFORCE PREPARATION--FOOD SANITATION & SAFETY

0 Unit/2 hours laboratory for 4 weeks. Non-Credit Course.
Description: Course covers basic principles of sanitation and safety, and the application of these principles to restaurant and non-restaurant food service operations. Prepares students to take the California Department of Health Food Handler Certification exam.
Exempt From Repeat Provisions

ADLTED 784 COMMERCIAL FOOD PREPARATION AND SERVICE

0 Unit/15 hours laboratory for 4 weeks. Non-Credit Course.
Description: Fundamentals of commercial food preparation emphasizing practical experience rotating through the stations of a kitchen, developing cooking skills in hot and cold food production, proper plating and serving of food, and the concepts of teamwork.
Exempt From Repeat Provisions

ADLTED 791 PERSONAL FINANCE

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course.
Description: Overview of personal financial management skills, positive banking relations, and achieving financial security. Topics include: personal budgeting; saving; credit; appropriate use of credit cards; banking services; consumer installment loans; and buying real estate.
Exempt From Repeat Provisions

ADLTED 792 PLANNING FOR THE FINANCIAL FUTURE

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 723.
Description: Students will learn to review an individual financial situation, develop financial goals for retirement and identify appropriate means to achieve these goals. Topics will include: financial goal setting; life insurance; different types of retirement accounts; and investment options.
Exempt From Repeat Provisions

ADLTED 793 STUDENT SUPPORT WORKER 1: INTRODUCTION TO STUDENT SUCCESS

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 761.1 (or ADLTED 761).
Description: This course is designed for people interested in exploring career opportunities in a school or other setting that fosters literacy and student success. Students will learn how to promote general and family literacy and how to support a child's education in and outside of school. Topics will include: how to use technology to effectively connect to schools and teachers; family reading opportunities; other learning opportunities; family trips to the library; and instilling an appreciation of learning as a path to higher education. This is the first course in a sequence leading to careers in student support and care, and computer applications in an education environment.
Exempt From Repeat Provisions

ADLTED 794 STUDENT SUPPORT WORKER 2

0 Unit/3 hours laboratory for 8 weeks. Non-Credit Course. Recommended: Course Completion of ADLTED 793Course Completion of ADLTED 793Course Completion of ADLTED 793.
Description: This course is the second in a series designed for people interested in exploring career opportunities in a school or other settings that foster literacy and student success. Students will learn how to promote general and family literacy and how to support a child's education in and outside of school. Topics will include: creating a supportive learning environment; working with parents, teachers, and the school system; creating educational opportunities outside of school; developing and discussing educational goals; and instilling an appreciation of learning as a path to higher education.
Exempt From Repeat Provisions

AGRICULTURE (AGRI)

AGRI 10 INTRODUCTION TO AGRICULTURAL SCIENCES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU area B2*
Description: A course designed to acquaint students with basic scientific principles through applied experiences of an agricultural nature. Specific topics include taxonomy, physiology, reproduction, biochemistry, genetics, economics, and consumerism as they relate to plant science, animal science, soil science and viticulture/enology.

AGRI 20 INTRODUCTION TO PLANT SCIENCE

(Formerly AG 51) 3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: AG - PS 106L
GE: *AA/AS area C;CSU areas B2,B3;IGETC areas 5B,5C*
Description: Introduction to plant science including structure, growth processes, propagation, physiology, growth media, biological competitors, and post-harvest factors of food, fiber, and ornamental plants. Laboratory required.

AGRI 50 INTRODUCTION TO AGRICULTURE EDUCATION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Objectives, nature, and scope of teaching vocational agriculture. Overview of types of programs and classes and examination of career opportunities in vocational education.

AGRI 56 AGRICULTURAL ENTERPRISE PROJECT

2-4 Units/Up to 1 hour lecture, 9 hours by arrangement. P/NP Only. Prerequisite: Course Completion or Current Enrollment in AGBUS 7, AGBUS 51, AGBUS 56, AGRI 20, ANSCI 20, EQSCI 25, HORT 70, HORT 71, HORT 72, HORT 91, HORT 93, NRM 60, NRM 70, SUSAG 50, VIT 51, OR WINE 3. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: In consultation with instructor, student will select a specific agricultural/horticultural/forestry crop, commodity, or product and develop an enterprise project, using the resources at Shone Farm or other locations (with instructor's consent). Projects involve field experience in production and management techniques, marketing methods, and eventual sale of the chosen agricultural/horticultural/forestry crop, commodity, or product.

AGRI 60 SOIL & PLANT NUTRITION

(Formerly AG 53) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
C-ID: AG - PS 128L
GE: *AA/AS area C;CSU areas B1,B3*
Description: This course is an introduction to the science, ecology and management of soils. A key focus of the class is viewing soil health as the basis for ecological land management and discussing management practices to conserve and improve soils. Soil physical, chemical and biological properties and processes are all examined in detail through class lectures and discussion. The class laboratory focuses on evaluating soil health with field measurements, laboratory analyses, and calculations, including using soil testing to develop soil nutrient plans.

AGRI 70 INTEGRATED PEST MANAGEMENT

(Formerly AG 52) 3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Exploration of major agricultural pests, including insects, weeds, and diseases, and their impact on commercial crops and the landscape. The course focuses on integrated pest management, including cultural, biological, mechanical/physical, and chemical control methods. Course is designed to assist students in preparing for California licensing exams in pest management.

AGRI 98 INDEPENDENT STUDY IN AGRICULTURE

1-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU.
Description: Special projects by arrangement to provide for independent study and enriched academic experience in Agriculture.

AGRI 99 AGRICULTURE OCCUPATIONAL WORK EXPERIENCE

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Students must have a job in a licensed business that is directly related to their educational or occupational goal. Units earned are based on hours worked during the term.
Transferability: CSU.
Description: Agriculture Occupational Work Experience is supervised employment of students that extends classroom learning to the job site and relates to the students' educational or occupational goal in agriculture. The course is for students who work in a job that is related to the field of agriculture.
16 Units Total (WrxEx only)

AGRI 99I AGRICULTURE OCCUPATIONAL WORK EXPERIENCE INTERNSHIP

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an interview, placement and verification of employment because intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Agricultural Occupational Education Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship placement; and supervised employment of students that extends to the job site classroom learning that relates to the students' educational or occupational goal in Agriculture. Students eligible for internships will have declared a major in agriculture, have completed courses in the major, or have acquired a high level of skill in the discipline and are ready for on-the-job experience in a paid (75 hours/unit) position. Please consult major/certificate requirements for number of units needed. Students will acquire new knowledge, skills, and abilities to prepare for a career in the field of Agriculture.
16 Units Total (WrxEx only)

AGRI 101 INTRODUCTION TO AGRICULTURAL CAREERS

2 Units/2 hours lecture. Grade or P/NP.
Description: This class will provide an overview of the full variety of agriculture careers. Students will explore different fields of study, career options, and requirements to achieving career goals. A special focus will be placed on programs available at the Santa Rosa Junior College which includes agribusiness, animal science, equine science, floristry, horticulture, natural resource management, sustainable agriculture, veterinary medicine, viticulture, and wine studies.

AGRICULTURE BUSINESS (AGBUS)

AGBUS 2 AGRICULTURAL COMPUTER APPLICATIONS

(Formerly AG 2) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of CS 5.
Transferability: CSU;UC.
C-ID: AG - AB 108
Description: Computer use in the workplace with emphasis on agribusiness situations. Use of software

applications including Microsoft office, presentation manager, Google applications to develop documents and tools for agribusinesses. Also included in this course will be the strategies and techniques for using current online sales and marketing tools in agribusiness.

AGBUS 7 AGRICULTURAL ECONOMICS

(Formerly AG 7) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent and Eligibility for MATH 155 OR MATH 154.
Transferability: CSU;UC.
C-ID: AG - AB 124
GE: *AA/AS area D;CSU area D*
Description: Introduction to factors affecting demand and supply for food, fiber and agricultural inputs. Evaluating factors of production, production costs, market structure, price system and their applications in agriculture. Examine local and federal policies and implications for agribusiness and trade.

AGBUS 56 INTRODUCTION TO AGRICULTURE BUSINESS AND MANAGEMENT

(Formerly AGBUS 50) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
C-ID: AG - AB 104
Description: This course provides an overview of the business and economic aspects of the agriculture industry. Introduction to the economic aspects of agriculture and the implications for consumers and other sectors of the food system. Principles of management and decision-making in agribusiness.

AGBUS 61 AGRICULTURAL MARKETING

(Formerly AG 74) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Survey of marketing aspects of the agriculture industry. An overview of the structure and institutional aspects of the marketing system including global agricultural markets. Develop and present effective marketing plans for value-added commodities. Conduct industry studies of the marketing of selected locally grown commodities.

AGBUS 62 AGRICULTURAL SALES AND COMMUNICATION

(Formerly AG 72) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
C-ID: AG - AB 112
Description: This course involves the study of principles and practices of the selling process: selling strategies and approaches, why and how people buy, prospecting, territory management, and customer service. Self management, communication, and interpersonal skills necessary in developing managerial abilities, leadership qualities, and facilitating teamwork within the agribusiness sector will be explored. The course content is organized to give students an in depth understanding of the factors that influence selling in the agribusiness industry.

AGBUS 71 AGRICULTURAL ACCOUNTING

(Formerly AG 73) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.

C-ID: AG - AB 128
Description: Applications of the principles and practices of financial and managerial accounting in agribusiness. The course also includes methods of record-keeping, measurement of revenue and expenses and analysis of financial positions in agribusiness.

AGBUS 105 AGRICULTURAL FINANCE

(Formerly AGBUS 72) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100; AND MATH 151.
Description: This course involves the study of basic financial concepts, agricultural lending, financial institutions, financial and investment analysis. In addition, this course examines financial risk, risk management, legal aspects of agricultural finance, and the principles and practices for financing different forms of legal business organizations in agriculture.

AGBUS 151 AGRICULTURE LEADERSHIP

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: The course involves the study of leadership theories and practices and their applications in agricultural organizations. The content is organized to provide students the skills for understanding group dynamics, leadership development, effective communication, agriculture literacy, and advocacy within private, governmental, and non-profit agriculture enterprises. Practical experience will be gained through planning and participation in a number of community and outreach events in the agriculture industry.

AGBUS 152 AGRICULTURE MENTOR TRAINING

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course is designed to prepare students for a variety of leadership roles in agricultural organizations. Experiences will be gained through participating and leading in several activities including leadership training, agriculture literacy events, student recruitment, mentorship, and planning/implementing/evaluating events within the agriculture industry.

AGRICULTURE MECHANICS (AGMEC)

AGMEC 50 AGRICULTURAL MACHINERY AND EQUIPMENT SKILLS

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course involves design principles, selection, maintenance, safe tractor and agricultural equipment operation. Emphasis on proper techniques for the operation and service of common farm implements.

AGMEC 163 SMALL GASOLINE ENGINES

(Formerly AGMEC 63) 2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: The practical aspects of the repair and safe operation of small gasoline engines are emphasized. Troubleshooting, disassembly, repair, reassembly and appropriate use of engines found on equipment such as lawn mowers, rototillers, blowers, weed eaters, etc., are covered.

ALCOHOL AND OTHER DRUG STUDIES (AODS)

AODS 90 INTRODUCTION TO ALCOHOL AND DRUG STUDIES

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course reviews the field of alcohol and other drug abuse. The course will study the history of alcohol and other drug abuse and its impact on American society and the family. It includes an overview of theories of substance abuse and identification of signs and symptoms, as well as treatment resources and myths of abuse.

AODS 91 PREVENTION AND EDUCATION ON ALCOHOL AND DRUGS

(Formerly HLE 96) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course reviews prevention and education techniques and strategies needed to help the chemically dependent person overcome addiction. Students will analyze the ways in which education can and does assist in the prevention of communicable and infectious diseases among drug users and the application of harm reduction strategies to other public health issues.

AODS 92 PHARMACOLOGICAL & PHYSIOLOGICAL EFFECTS OF ALCOHOL & DRUGS

3 Units/3 hours lecture. Grade Only.
Transferability: CSU.
Description: This course reviews the medical and pharmacological aspects of alcohol and psychoactive substances. Students will also review theories and research pertaining to chemical dependency, pharmacological actions of drugs, drug classifications, medical and physical effects of alcohol and other drugs. The potential for abuse and dependency, and how psychoactive substances affect the mind and body will also be reviewed.

AODS 93 REHABILITATION OF ALCOHOL & DRUG PROBLEMS

3 Units/3 hours lecture. Grade Only.
Transferability: CSU.
Description: This course reviews the initial admission requirements for alcohol and drug assistance programs, assessment requirements for orientation to the programs, disciplinary rules, costs of programs, methods of payment and client's rights. Current treatment modalities will be compared and contrasted with regard to the individual in the social and clinical context. Professional and ethical codes of conduct and behavior will also be reviewed and emphasized.

AMERICAN SIGN LANGUAGE (ASL)

ASL 1 ELEMENTARY AMERICAN SIGN LANGUAGE - PART 1

(Formerly ASL 1A) 4 Units/4 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 6A*
Description: Introduction to elementary American Sign Language, focusing on both receptive and expressive skills, ASL literature, and Deaf culture and community.

ASL 2 ELEMENTARY AMERICAN SIGN LANGUAGE - PART 2

(Formerly ASL 1B) 4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ASL 1. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC areas 3B,6A*
Description: Continuation of instruction in elementary American Sign Language using appropriate linguistic and cultural principles. Instruction increases and expands conversational strategies and comprehension of ASL grammatical structures.

ASL 3 INTERMEDIATE AMERICAN SIGN LANGUAGE - PART 1

(Formerly ASL 2A) 4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ASL 2.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 6A*
Description: The course builds on the foundation of skills and knowledge learned in both American Sign Language 1 and 2 (ASL 1 and 2) and increases and expands comprehension, production, and conversational strategies as covered in ASL 1 and 2. Students will learn more complex grammatical features through narratives and dialogues and they will increase their knowledge of both linguistic and cultural content.

ASL 4 INTERMEDIATE AMERICAN SIGN LANGUAGE - PART 2

(Formerly ASL 2B) 4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ASL 3.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 6A*
Description: Intensive instruction in advanced intermediate American Sign Language using appropriate linguistic and cultural principles. Instruction will focus on several broad areas: exchanging personal information about life events; describing and identifying things; and talking about events and activities in the past, present and future.

ASL 56 ASL FINGERSPELLING AND NUMBERS

(Formerly ASL 107) 2 Units/2 hours lecture. Grade or P/NP. Recommended: Course Completion or Concurrent Enrollment in ASL 1.
Transferability: CSU.
Description: Introduction to fingerspelled and numerical systems in American Sign Language. This course provides intensive instruction in the receptive and expressive practice of fingerspelling and numbers at increasing levels of complexity.

ASL 57 CLASSIFIERS IN AMERICAN SIGN LANGUAGE

(Formerly ASL 108) 2 Units/2 hours lecture. Grade or P/NP. Recommended: Course Completion or Concurrent Enrollment in ASL 1.
Transferability: CSU.

Description: Introduction to the visual and gestural aspects of classifiers in ASL. Students will study various classifier types and functions and learn how to identify and incorporate classifiers in a variety of discourse styles and formats such as dialogs, presentations and storytelling.

ANATOMY (ANAT)

ANAT 1 GENERAL HUMAN ANATOMY

5 Units/3 hours lecture, 6 hours laboratory. Grade or P/NP. Prerequisite: Completion of BIO 10 or higher (V7) and Course Completion of ENGL 1A.
Transferability: CSU;UC.
C-ID: BIOL 110B
GE: *AA/AS area C;CSU areas B2,B3;IGETC areas 5B,5C*
Description: Study of gross and microscopic structure of human tissues, organs and organ systems; includes dissection of human cadavers. (Intended for nursing and dental hygiene majors.)

ANAT 40 INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Recommended: Completion of HLC 160 and CHEM 60, and eligibility for ENGL 100 or ESL 100. .
Transferability: CSU;UC.
GE: *AA/AS area C;CSU areas B2,B3;IGETC areas 5B,5C*
Description: This is an introductory course in human anatomy and physiology, and covers the structure and function of all organ systems of the human body. Basic terminology and concepts will be covered, with an emphasis on structure/ function relationships and homeostasis. (Intended for paramedic students)

ANAT 58 INTRODUCTION TO HUMAN ANATOMY

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
GE: *AA/AS area C*
Description: A survey of human anatomy, including study of tissues, organs, and organ systems. This introductory course is designed for students who require a fundamental background in human anatomy. Course is a pre-requisite for radiologic technology and Licensed Vocational Nursing (LVN); an alternative pre-requisite for paramedic and medical assisting programs; it is not intended for nursing (RN), dental hygiene, or physical therapy majors.

ANAT 140 FUNDAMENTALS OF ANATOMY AND PHYSIOLOGY

2 Units/1.5 hours lecture, 2 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Course covers the fundamentals of human anatomy and physiology. Intended for students in dental assisting and medical assisting programs.

ANIMAL HEALTH (ANHLT)

ANHLT 50 VETERINARY ANATOMY AND TERMINOLOGY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Introduction to the anatomy and physiology of all major body systems in small animals with a focus on companion animal species (canine and feline). This class will progress in a body systems format with an emphasis on veterinary medical terminology. Commonly used veterinary diagnostics and treatments are woven throughout the course as relevant to organ or body structure or function.

ANHLT 52 SMALL ANIMAL DISEASE RECOGNITION AND TRANSMISSION CONTROL

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This class will focus on the diseases of companion animal species (feline and canine). This class will include disease recognition as well as transmission control, hospital sanitation and sterilization procedures. A special emphasis will be placed on zoonoses awareness and protection. Microbiology of bacterial, viral, and fungal infections will be covered including relevance to chemical disinfectant handling.

ANHLT 109 COMPLEMENTARY AND ALTERNATIVE VETERINARY MEDICINE

2 Units/2 hours lecture. Grade or P/NP. Prerequisite: Completion of or Current Enrollment in ANHLT 50.
Description: This class will focus on disease treatment in animal species, (primarily feline and canine) using complementary and alternative modalities. Modalities covered will include acupuncture, herbal medicine, chiropractic, and homeopathy. This class will include complentary and alternative veterinary medicine (CAVM) terminology; record keeping, preparation and administration of nutraceutical, herbal, and homeopathic medicines; patient monitoring; removal, handling and disposal of acupuncture needles; prescription preparation; and client education regarding CAVM treatments.

ANHLT 120 SMALL ANIMAL VETERINARY ASSISTANCE AND NURSING

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ANHLT 50 or ANHLT 110. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of MATH 150A.
Description: Lecture and demonstration of small animal veterinary assistance and nursing procedures. Covers basic emergency and preventive health care, nutrition, medication and fluid administration, animal behavior, animal handling and restraint for veterinary procedures, and record keeping for application in a small animal veterinary clinic.

ANHLT 121 VETERINARY SURGICAL AND DENTAL ASSISTANCE

(Formerly AG 167.7) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ANHLT 50. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course includes instruction on all aspects of veterinary surgery and dentistry with emphasis on the role of the technician. All aspects of the surgical experience are covered including surgical instrumentation, suturing techniques, application of bandages, splints and casts, patient preparation, surgical nursing and assisting,

intravenous catheter placement, common surgical procedures, pain assessment and patient recovery. Dental care of companion, laboratory and large animals will be discussed including disease progression, dental prophylaxis and extractions.

ANHLT 122 ANIMAL NURSING FIELD SEMINAR

0.75 Unit/0.75 hour lecture. Grade or P/NP. Prerequisite: Concurrent Enrollment in ANHLT 122L. Recommended: Course Completion or Concurrent Enrollment in ANHLT 50.
Description: Course includes an introduction to nursing skills, hospital safety procedures, and basic restraint techniques for a veterinary setting for canines and felines.

ANHLT 122L ANIMAL NURSING FIELD PRACTICUM

0.25 Unit/1 hour by arrangement. Grade or P/NP. Prerequisite: Concurrent Enrollment in ANHLT 122. Recommended: Course Completion of ANHLT 50.
Description: Course provides hands-on practical experience applying small animal nursing skills in a veterinary setting.

ANHLT 123 SMALL ANIMAL VETERINARY EMERGENCIES

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of ANHLT 50 AND ANHLT 120. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course covers both theoretical and practical aspects of assisting the veterinarian in the management of small animal (dog and cat) medical and traumatic emergencies. This class will include recognition, assessment and triage of the emergent veterinary patient. Common specific emergency situations will be reviewed including underlying cause, diagnostics, initial treatment, and ongoing intensive patient care.

ANHLT 126 VETERINARY TECHNICIAN REVIEW AND BOARD EXAM PREPARATION

2 Units/2 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ANHLT 52, ANHLT 120 and ANHLT 121.
Description: Comprehensive review of veterinary technician information to prepare students for success on the Veterinary Technician National Exam. Pertinent subject matter will be reviewed with a focus of restating key concepts and identification of students personal strengths and weaknesses regarding required subject matter. Students will also learn about requirements for exam eligibility and application procedure, exam design and composition, and question analysis strategies.

ANHLT 141 SMALL ANIMAL VETERINARY ANESTHESIA

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ANHLT 50. Recommended: Course Completion of ANHLT 120.
Description: This course will provide an overview of the use of anesthesia for the small animal veterinary workplace. Students will become familiar with anesthetic medications, anesthetic equipment, patient assessment, anesthetic protocols and anesthetic monitoring for small animal patients.

ANHLT 142 VETERINARY PHARMACOLOGY AND MEDICAL CALCULATIONS

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Course Completion of ANHLT 50, ANHLT 120 and MATH 150A.
Description: This course will provide an overview of the use of medication to treat and prevent disease within the

veterinary workplace. General pharmacology and medications of all types will be covered. The indications, side effects, and administration of common specific medications will be discussed. Legal requirements for handling, labeling and dispensing medication will be covered in the context of a companion animal practice. Students will also develop the mathematical skills required to safely follow prescription instructions and administer medications.

ANHLT 151 VETERINARY LABORATORY AND IMAGING PROCEDURES

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ANHLT 52. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course will introduce students to common tests performed in veterinary medicine. Collection of quality samples, appropriate sample handling and test protocols will be discussed. Students will run tests on blood, urine, feces, and skin samples. Laboratory procedures performed will include clinical biochemistry, cytology, hematology, immunology, basic microbiology, parasitology, urinalysis and basic necropsy techniques. This class will include safe and diagnostic use of imaging modalities including radiography, radiation safety principles, ultrasound principles and basic endoscopy.

ANHLT 161 VETERINARY MEDICAL OFFICE PROCEDURES

2 Units/2 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: In this course students learn about the spectrum of skills utilized by veterinary office staff. Emphasis will be placed on client communication skills and medical office management including medical record keeping and drug inventory control. Additional topics include emergency recognition, euthanasia and grieving, preventative health programs, common veterinary abbreviations, and relevant computer programs.

ANIMAL SCIENCE (ANSCI)

ANSCI 2 INTRODUCTION TO FARM ANIMAL HEALTH

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: Introduction to animal health and disease control in livestock animals. Classification of animal diseases, their causes and appropriate treatments with emphasis on preventative medicine.

ANSCI 20 BASIC ANIMAL SCIENCE

(Formerly AG 20) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area C*
Description: A scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics and epidemiology. Emphasis on the origin, characteristics, adaptation and contributions of farm animals to the agriculture industry. Analysis of economic trends and career opportunities in animal agriculture and a survey of the supply of animal products and their uses.

ANSCI 26 LIVESTOCK EVALUATION

(Formerly AG 26) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.

Transferability: CSU;UC.

Description: Detailed analysis of various visual and physical methods of appraising beef, sheep, swine and horses concerning functional and economic value. Written and oral summaries of evaluation will be learned. Specific reference will be made to performance data and factors determining carcass value.

ANSCI 27 BEEF CATTLE SCIENCE

(Formerly AG 62) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.

Transferability: CSU;UC.

Description: A study of the principles of purebred and commercial beef cattle production throughout the World, United States ,and California. Emphasis to be placed on the importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing, and recordkeeping to ensure scientifically based management decisions and consumer product acceptance as applied to beef cattle.

ANSCI 29 DAIRY CATTLE INDUSTRY/DAIRY CATTLE SCIENCE

(Formerly AG 64) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.

Transferability: CSU;UC.

Description: History, development and projections of the dairy industry. General information on the economics of dairying, facts, trends, selection, culling, fitting, showing, judging, pedigrees, feeding and basic management skills; employment opportunities and requirements.

ANSCI 51 ANATOMY AND PHYSIOLOGY OF FARM ANIMALS

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.

Transferability: CSU.

Description: An introduction to the fundamental structure and function of four-legged farm animals. Emphasis is placed on the practical aspects of anatomy and physiology of different farm animal species. Discussion will include tissues, organs, and body systems that make up the farm animal so the information can be applied to their daily care and management.

ANSCI 52 MEAT SCIENCE

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates.

Transferability: CSU.

Description: This course is an introduction to the meat industry with a special emphasis on meat products and value added meat processing techniques. It includes concepts of food safety and sanitation, grading and inspection along with preservation and marketing strategies to meet current consumer demands.

ANSCI 61 LIVESTOCK FEEDING AND NUTRITION

(Formerly AG 61) 3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.

Transferability: CSU.

Description: This course covers the science of animal nutrition, the fundamentals of digestion and absorption in

both ruminants and non-ruminants, and basic functions of major nutrient classes. The nutritive value of feeds as they relate to the formulation of livestock rations, including by-product feeding, will be emphasized. Feed processing and nutrient requirements will also be discussed.

ANSCI 91 RANGELAND MANAGEMENT

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Basic principles of range management as they apply to various regions and vegetative types. Relationship of range management practices to livestock production, wildlife management, forestry, hydrology and other land uses. Field trip participation required.

ANSCI 134 LIVESTOCK REPRODUCTION

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course combines the study of basic genetic principles with the study of the anatomical and physiological aspects of reproduction as they relate to equine and livestock reproduction. Genetic principles to be emphasized include basic inheritance, selection techniques, mating systems, heterosis, and performance evaluation. Reproductive aspects to include endocrinology, estrous cycles, mating behaviors, gametogenesis, conception, gestation, parturition, and maternal behaviors. Artificial insemination, embryo manipulation, and current innovations in productive biotechnology will also be examined.

ANSCI 153 SUSTAINABLE AGRICULTURE PRODUCTION SYSTEMS WITH ANIMALS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course covers the integration of livestock as part of a sustainable farming system with emphasis on small-scale production for niche markets and pasture based systems. Topics included are appropriate breed selection, nutrition and living requirements for livestock such as goats, hogs, sheep, poultry and cattle. Upon completion, student should recognize current applications of sustainable animal agriculture including the challenges of animal production, animal needs, animal welfare and protection of the environment and resources for future food supply systems.

ANSCI 171 LIVESTOCK BEHAVIOR AND HUMANE MANAGEMENT

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Introduction to livestock behavior and the evolution of behavioral traits. Introduces practical handling concepts and facilities design, to facilitate low-stress methods of livestock management. Explores the benefits of keeping animals calm, including safer working conditions, higher yields of marketable product, better-quality product, and more humane conditions.

ANTHROPOLOGY (ANTHRO)

ANTHRO 1 BIOLOGICAL ANTHROPOLOGY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A.
Transferability: CSU;UC.
C-ID: ANTH 110
GE: *AA/AS areas C,H;CSU area B2;IGETC area 5B*
Description: The study of human evolution and humans as organisms, with an emphasis on a biocultural approach. This is an introductory, broad survey course that covers the history and modern synthesis of evolutionary theory; studies primate behavior and comparative anatomy; examines dating techniques and the fossil record; and critically assesses past and future human/environmental relationships including issues concerning future adaptation.

ANTHRO 1L BIOLOGICAL ANTHROPOLOGY LAB

1 Unit/3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in ANTHRO 1.
Transferability: CSU;UC.
GE: *CSU area B3;IGETC area 5C*
Description: An introductory laboratory course that uses scientific methodology to explore and experiment with topics from Introduction to Biological Anthropology (ANTHRO 1) lectures. Major topics to be covered include cell biology, genetics, human osteology, primate anatomy and social behavior and the human fossil record. Additional topics may include human variability, medical anthropology, forensic anthropology, environmental challenges to hominids, and human impact on the environment.

ANTHRO 2 CULTURAL ANTHROPOLOGY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas D,H;CSU area D;IGETC area 4*
Description: Exploration of human cultural diversity and interrelationships on a global scale. Comparative analysis of traditions such as kinship, childrearing, religion, magic, political systems, language, and relationship to nature.

ANTHRO 3 INTRODUCTION TO ARCHAEOLOGY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: ANTH 150
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: Introduction to archaeology as the scientific study of the human past through analysis of material remains. The course reviews archaeological methods of survey, excavation, laboratory analysis, interpretation and publication; the history of archaeological theory; the development and implementation of CRM; and ethical principles guiding modern archaeological practice. Selected cultural sequences are integrated into the course to highlight the ways in which archaeological practice has contributed to our knowledge of the past.

ANTHRO 4 ANCIENT PEOPLES AND SOCIETY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: Introduction to the development of complex human societies using cross-cultural, comparative examples from the archaeological record beginning with early hunter-gatherer societies and concluding with the collapse of ancient empires.

ANTHRO 19 FORENSIC ANTHROPOLOGY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of ANTHRO 1.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU area B2;IGETC area 5B*
Description: Introduction to the field of forensic anthropology. Emphasis will be placed on the techniques used to assess age, sex, ancestry, trauma, pathology, and cause of death from the human skeleton within a medico-legal context. This course will examine the role of the anthropologist in crime scene investigations.

ANTHRO 21 AMERICAN FOLKLORE AND FOLKLIFE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas D,G;CSU area D;IGETC area 4*
Description: Survey of the forms and functions of American oral traditions and folklife customs. Analysis of myth, legend, proverb, humor, life cycle events, folk architecture, foodways, and other folklore/life traditions in American community and neighborhood settings. Cultural comparisons will include no less than three of the following groups: African American, Asian American, Chicano/Latino American, European American, Indigenous Peoples of the Americas, and Americans of Middle Eastern Origin.

ANTHRO 30 ANTHROPOLOGY OF GLOBALIZATION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of ANTHRO 2.
Transferability: CSU;UC.
GE: *AA/AS areas D,H;CSU area D;IGETC area 4*
Description: The comparative study of various peoples and traditions as influenced by the dynamic processes of globalization.

ANTHRO 31 MESOAMERICAN ORIGINS OF LATINO CULTURE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,G;CSU area C2;IGETC area 3B*
Description: This class examines the origin and evolution of the ancient societies of Mesoamerica through the anthropological perspective. Archaeological, cultural, and ethnohistoric evidence is used to examine such aspects of Mesoamerican life as religion, politics, economics, art and architecture, and social organization.

ANTHRO 32 NATIVE CULTURES OF NORTH AMERICA

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas D,G;CSU area D;IGETC area 4*
Description: An ethnographic survey of the Native cultures of North America, including the Native responses to European, Euro-American and other culture contacts. Emphasis will be on indigenous cultural adaptations from the 16th century to the present, although prehistoric lifeways will also be covered.

ANTHRO 34 NATIVE CULTURES OF CALIFORNIA

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area G;CSU area D;IGETC area 4*
Description: An ethnographic survey of diverse Native American cultures in California from the 16th century to the present time, including the Native cultural responses to the colonial influences of the Spanish, Russians, and other Euro-American people.

ANTHRO 43 NATIVE AMERICAN ART AND CULTURE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,G;CSU area C1;IGETC area 3A*
Description: Study of Native American societies, their worldviews, practices, and oral traditions as expressed in their material culture. Art from ancient history to contemporary expressions are examined from the perspective of Native American history. Additional emphasis on the transformation of objects into art from the influences of non-Native cultures.

APPLIED TECHNOLOGY (APTECH)

APTECH 43 COMPUTER MODELING AND ANIMATION WITH 3D STUDIO MAX

(Formerly APTECH 53) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only.
Transferability: CSU;UC.
Description: Three-Dimensional (3D) modeling, rendering, and animation using the windows-based, 3D Studio Max Software program. The student will create professional quality 3D models, photo-realistic still images and film quality animation at the personal computer. Topics include: creating 3D objects and scenes, assigning and editing bitmap materials, creating and setting light sources and camera, casting shadows, and describing movement of: objects, camera, and lights to produce desired results within computer animations.

APTECH 45 BASIC DRAFTING SKILLS

(Formerly APTECH 55) 1.5 Units/1 hour lecture, 1.5 hours laboratory. Grade Only. Recommended: High School Geometry.
Transferability: CSU;UC.
Description: A course emphasizing drawing-based manual drafting with a cursory introduction to Computer-Aided Drafting (CAD) for comparison. Topics include proper use of drafting tools, development of linework and lettering skills, procedures for geometric constructions, freehand drafting/sketching, orthographic projection, and isometric drawing.

APTECH 46 INTRODUCTION TO COMPUTER-AIDED DRAFTING

(Formerly APTECH 56) 2 Units/2 hours lecture, 0.5 hour laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in APTECH 45 OR INDE 50 OR HORT 93.
Transferability: CSU;UC.
Description: Introduction to Computer-Aided Drafting (CAD) utilizing the AutoCAD software program. Areas

covered include: program organization, program commands and tools, view navigation, drawing set-up, geometric construction/editing, orthographic projection, dimensioning and text annotations, printing/plotting, and an introduction to 3-dimensional drafting/design.

APTECH 57 ADVANCED AUTOCAD

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of APTECH 46.
Transferability: CSU.
Description: Computer-aided drafting using the AutoCAD software program. Areas covered include: advanced layout, construction and editing techniques, advanced dimensioning practices, 3-D modeling and rendering, software customization, project-oriented architectural, civil and mechanical engineering applications, and an introduction to computer animation.

APTECH 58 MECHANICAL CAD DESIGN

1.5 Units/1 hour lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of APTECH 46.
Transferability: CSU.
Description: Feature based, parametric solid modeling with AutoDesk's Inventor software package for mechanical drafting and design. The course includes geometric dimensioning and tolerancing to complete the annotation of mechanical working drawings.

APTECH 59 ARCHITECTURAL CAD

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of APTECH 46.
Transferability: CSU.
Description: Preparation of residential construction documents using AutoCAD. Problem solving skills will be developed by applying code requirements to a proposed building addition. The student will create typical construction drawings including plans, sections, elevations, schedules and details.

APTECH 63 3D ANIMATION: MODELING AND RIGGING

4 Units/3.5 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of APTECH 43 (formerly APTECH 53).
Transferability: CSU.
Description: This course covers the creation of digital characters and synthetic environments for film, broadcast and video games. Using Autodesk 3ds Max software, students will design and build increasingly complex 3D sets, props, and characters. They will also craft control systems for effectively animating these digital components. Efficient workflow and the creation of animator-friendly rigs will be emphasized, and complementary software will be used for texturing and refining of models.

APTECH 64 3D ANIMATION: CHARACTER ANIMATION

4 Units/3.5 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of APTECH 43.
Transferability: CSU.
Description: This course focuses on the animation of three-dimensional (3D) digital characters using Autodesk 3ds Max software. Through both pantomime and facial lip-sync animation, students apply the fundamental mechanics of motion to create believable movements and expressive performances.

APTECH 65 ADVANCED 3D ANIMATION WORKSHOP

4 Units/3.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of APTECH 63 OR APTECH 64 OR APTECH 162.
Transferability: CSU.
Description: This class focuses on animation production for professional portfolio development using Autodesk 3ds Max and other complementary software. Students work individually and collaboratively to develop complex 3D (three dimensional) models, textures, visual effects and animations. This course also includes an investigation of career options, and enables students to produce demonstration reels showcasing their specific skills.

APTECH 87 3D MODELING AND RENDERING USING CAD

2 Units/2 hours lecture, 0.5 hour laboratory. Grade Only. Prerequisite: Course Completion of APTECH 57.
Transferability: CSU.
Description: Computer-generated 3D modeling and rendering using AutoCAD and related software programs. Topics include: Advanced modeling/editing techniques, material assignment and editing, architectural lighting, image captured and editing.

APTECH 162 3D ANIMATION: VISUAL EFFECTS AND COMPOSITING

2 Units/1.75 hours lecture, 0.75 hour laboratory. Grade Only. Prerequisite: Course Completion of APTECH 43.
Description: This course covers a range of visual effects (VFX) in Autodesk 3ds Max and Adobe After Effects, including particle systems, dynamic simulations, and the integration of computer-generated (CG) and real-world imagery. Topics include basic motion capture, matchmoving and multipass rendering workflows.

APTECH 168 3D ANIMATION: INTRODUCTION TO VIRTUAL REALITY

2 Units/1.75 hours lecture, 0.75 hour laboratory. Grade Only. Prerequisite: Course Completion of APTECH 43.
Description: This course introduces the process of creating virtual reality (VR) experiences based on computer-generated environments. Students will develop models and animations in Autodesk 3ds Max, and bring them into Autodesk Stingray to create interactive experiences.

APTECH 191 PROBLEM SOLVING IN CIVIL ENGINEERING TECHNOLOGY

3 Units/3 hours lecture. Grade Only. Recommended: Course Completion of MATH 150B OR MATH 151 OR Standard first year high school algebra course with "C" or better.
Description: Approaches to problem solving in Civil Engineering Technologies including quantitative reasoning coupled with direct applications to problems encountered in land surveying, civil engineering, GIS, construction and related engineering technologies.

APPRENTICESHIP EDUCATION (APED)

APED 221.1 ELECTRICIAN APPRENTICE RESIDENTIAL WIRING, 1ST SEMESTER

(Formerly APED 270) 3.5 Units/3 hours lecture, 1.5 hours laboratory. Grade Only. Limits on enrollment: Admission into the indentured electrician apprentice program.
Description: Introductory course for training related to residential wiring for electrician indentured apprentices. This is the first semester of a six semester program.

APED 221.2 ELECTRICIAN APPRENTICE RESIDENTIAL WIRING, 2ND SEMESTER

(Formerly APED 271) 3.5 Units/3 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of APED 221.1 (or APED 270).
Description: This course continues the training for residential wiring for electrician indentured apprentices. This is the second semester of a six semester program.

APED 221.3 ELECTRICIAN APPRENTICE RESIDENTIAL WIRING, 3RD SEMESTER

(Formerly APED 272) 3.5 Units/3 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of APED 221.2 (or APED 271).
Description: This course continues the instruction for residential wiring for electrician indentured apprentices. This is the third semester of a six semester program.

APED 221.4 ELECTRICIAN APPRENTICE RESIDENTIAL WIRING, 4TH SEMESTER

(Formerly APED 273) 3.5 Units/3 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of APED 221.3 (or APED 272).
Description: This course continues the instruction for residential wiring for electrician indentured apprentices. This is the fourth semester of a six semester program.

APED 221.5 ELECTRICIAN APPRENTICE RESIDENTIAL WIRING, 5TH SEMESTER

(Formerly APED 274) 3.5 Units/3 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of APED 221.4 (or APED 273).
Description: This course continues the instruction for residential wiring for electrician indentured apprentices. This is the fifth semester of a six semester program.

APED 221.6 ELECTRICIAN APPRENTICE RESIDENTIAL WIRING, 6TH SEMESTER

(Formerly APED 275) 3.5 Units/3 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of APED 221.5 (or APED 274). Limits on enrollment: Admission into the indentured electrician apprentice program.
Description: This course continues the instruction for residential wiring for electrician indentured apprentices. This is the sixth semester of a six semester program.

APED 260 APPRENTICE ELECTRICIANS, FIRST SEMESTER

(Formerly APED 220.1) 4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice electricians.

APED 261 APPRENTICE ELECTRICIANS, SECOND SEMESTER

(Formerly APED 220.2) 4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice electricians.

APED 262 APPRENTICE ELECTRICIANS, THIRD SEMESTER

(Formerly APED 220.3) 4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice electrician workers; third semester.

APED 263 APPRENTICE ELECTRICIANS, FOURTH SEMESTER

(Formerly APED 220.4) 4 Units/3 hours lecture, 3 hours laboratory. Grade Only.
Description: Related supplemental instruction for apprentice electricians.

APED 264 APPRENTICE ELECTRICIANS, FIFTH SEMESTER

(Formerly APED 220.5) 4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice electricians.

APED 265 APPRENTICE ELECTRICIANS, SIXTH SEMESTER

(Formerly APED 220.6) 4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice electricians.

APED 266 APPRENTICE ELECTRICIANS, SEVENTH SEMESTER

(Formerly APED 220.7) 4 Units/3 hours lecture, 3 hours laboratory. Grade Only.
Description: Related supplemental instruction for apprentice electricians.

APED 267 APPRENTICE ELECTRICIANS, EIGHTH SEMESTER

(Formerly APED 220.8) 4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice electricians.

APED 268 APPRENTICE ELECTRICIANS, NINTH SEMESTER

(Formerly APED 220.9) 4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice electricians.

APED 269 APPRENTICE ELECTRICIANS, TENTH SEMESTER

(Formerly APED220.10) 4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice electricians.

APED 321 APPRENTICE ELECTRICIANS MATHEMATICS REVIEW

1 Unit/3 hours by arrangement. Grade Only. Limits on enrollment: Admission to Apprenticeship Program
Description: Guided study for Electrician Apprentices of topics ranging from basic arithmetic through pre-algebra using diagnostic software to allow students to progress from their initial levels of competency. Students build mathematics skills in specific areas to prepare for desired apprenticeship requirements and courses. Students may work at home or at the Electricians Apprenticeship Training Center.

APED 345 APPRENTICE PLUMBERS, FIRST SEMESTER

(Formerly APED 245S) 2 Units/6 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice plumbers and pipefitters.

APED 346 APPRENTICE PLUMBERS, SECOND SEMESTER

2 Units/6 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice plumbers and pipefitters

APED 347 APPRENTICE PLUMBERS, THIRD SEMESTER

2 Units/6 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice plumbers and pipefitters

APED 348 APPRENTICE PLUMBERS, FOURTH SEMESTER

2 Units/6 hours laboratory. Grade Only.
Description: Related supplemental instruction for apprentice plumbers and pipefitters

APED 349 APPRENTICE PLUMBERS, FIFTH SEMESTER

2 Units/6 hours laboratory. Grade Only.
Description: Related supplemental instruction for apprentice plumbers and pipefitters

APED 351.1 APPRENTICE ROOFERS, MODULE 1

(Formerly APED 350.1) 0.5 Unit/2 hours laboratory. Grade Only. Limits on enrollment: Admission to the Indentured Roofing Apprenticeship Program
Description: Related supplemental instruction for apprentice roofers.

APED 351.2 APPRENTICE ROOFERS, MODULE 2

(Formerly APED 350.2) 0.5 Unit/2 hours laboratory. Grade Only. Limits on enrollment: Admission to the Indentured Roofing Apprenticeship Program
Description: Related supplemental instruction for apprentice roofers.

APED 351.3 APPRENTICE ROOFERS, MODULE 4

(Formerly APED 350.4) 0.5 Unit/2 hours laboratory. Grade Only. Limits on enrollment: Admission to Program - Indentured Roofer Apprenticeship
Description: Related supplemental instruction for apprentice roofers.

APED 351.4 APPRENTICE ROOFERS, MODULE 5

(Formerly APED 350.5) 0.5 Unit/2 hours laboratory. Grade Only. Limits on enrollment: Admission to the Indentured Roofing Apprenticeship Program
Description: Related supplemental instruction for apprentice roofers.

APED 351.5 APPRENTICE ROOFERS, MODULE 6

(Formerly APED 350.6) 0.5 Unit/2 hours laboratory. Grade Only. Limits on enrollment: Admission to the Indentured Roofing Apprenticeship Program
Description: Related supplemental instruction for apprentice roofers.

APED 351.6 APPRENTICE ROOFERS, MODULE 7

(Formerly APED 350.7) 0.5 Unit/2 hours laboratory. Grade Only. Limits on enrollment: Admission to Program - Indentured Roofer Apprenticeship
Description: Related supplemental instruction for apprentice roofers.

APED 351.7 APPRENTICE ROOFERS, MODULE 9

(Formerly APED 350.9) 0.5 Unit/2 hours laboratory. Grade Only. Limits on enrollment: Admission to Program - Indentured Roofer Apprenticeship
Description: Related supplemental instruction for apprentice roofers.

APED 351.8 APPRENTICE ROOFERS, MODULE 10

(Formerly APED350.10) 0.5 Unit/2 hours laboratory. Grade Only. Limits on enrollment: Admission to Program - Indentured Roofer Apprenticeship
Description: Related supplemental instruction for apprentice roofers.

APED 351.9 MAINTENANCE, REPAIR AND ROOFING, MODULE 8

(Formerly APED 350.8) 0.5 Unit/2 hours laboratory. Grade Only. Limits on enrollment: Admission to Program - Indentured Roofer Apprenticeship
Description: This course is for indentured roofer apprentices. The course covers related topics and skills for apprentice roofing workers in their first, second, and third year of the apprenticeship program.

APED 351.10 FIRST AID FOR ROOFERS, MODULE 3

(Formerly APED 350.3) 0.5 Unit/1.5 hours lecture for 6 weeks. Grade Only. Limits on enrollment: Must be admitted to the Indentured roofer apprentice program.
Description: This course teaches CPR and First Aid emergency response skills which enable participants to give immediate care to a person who has been injured or is experiencing a sudden illness. This course satisfies first-time and renewal certifications. Students must be admitted to the Indentured roofer apprentice program, to register for this class.

APED 355 APPRENTICE PLUMBERS, SIXTH SEMESTER

2 Units/6 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice plumbers and pipefitters

APED 356 APPRENTICE PLUMBERS, SEVENTH SEMESTER

2 Units/6 hours laboratory. Grade Only.
Description: Related supplemental instruction for apprentice plumbers and pipefitters

APED 357 APPRENTICE PLUMBERS, EIGHTH SEMESTER

2 Units/6 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice plumbers and pipefitters

APED 358 APPRENTICE PLUMBERS, NINTH SEMESTER

2 Units/6 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice plumbers and pipefitters

APED 359 APPRENTICE PLUMBERS, TENTH SEMESTER

2 Units/6 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction for apprentice plumbers and pipefitters

APED 360 APPRENTICE PLUMBERS, HVAC/REFRIGERATION, FIRST SEMESTER

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction of heating, ventilation, air conditioning, and refrigeration for apprentice plumbers and pipefitters.

APED 361 APPRENTICE PLUMBERS, HVAC/REFRIGERATION, SECOND SEMESTER

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice
Description: Related supplemental instruction of heating, ventilation, air conditioning, and refrigeration for apprentice plumbers and pipefitters.

APED 362 APPRENTICE PLUMBERS, HVAC/REFRIGERATION, THIRD SEMESTER

3 Units/1.5 hours lecture, 4.5 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice.
Description: Related supplemental instruction of heating, ventilation, air conditioning, and refrigeration for apprentice plumbers and pipefitters.

APED 363 APPRENTICE PLUMBERS, HVAC/REFRIGERATION, FOURTH SEMESTER

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice.
Description: Related supplemental instruction of heating, ventilation, air conditioning, and refrigeration for apprentice plumbers and pipefitters.

APED 364 APPRENTICE PLUMBERS, HVAC/REFRIGERATION, FIFTH SEMESTER

4 Units/3 hours lecture, 3 hours laboratory. Grade Only.
Description: Related supplemental instruction of heating, ventilation, air conditioning, and refrigeration for apprentice plumbers and pipefitters.

APED 365 APPRENTICE PLUMBERS, HVAC/REFRIGERATION, SIXTH SEMESTER

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice.
Description: Related supplemental instruction of heating, ventilation, air conditioning, and refrigeration for apprentice plumbers and pipefitters.

APED 366 APPRENTICE PLUMBERS, HVAC/REFRIGERATION, SEVENTH SEMESTER

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice.
Description: Related supplemental instruction of heating, ventilation, air conditioning, and refirgeration for apprentice plumbers and pipefitters.

APED 367 APPRENTICE PLUMBERS, HVAC/REFRIGERATION, EIGHTH SEMESTER

4 Units/3 hours lecture, 3 hours laboratory. Grade Only.
Description: Related supplemental instruction of heating, ventilation, air conditioning, and refrigeration for apprentice plumbers and pipefitters.

APED 368 APPRENTICE PLUMBERS, HVAC/REFRIGERATION, NINTH SEMESTER

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice.
Description: Related supplemental instruction of heating, ventilation, air conditioning, and refrigeration for apprentice plumbers and pipefitters.

APED 369 APPRENTICE PLUMBERS, HVAC/REFRIGERATION, TENTH SEMESTER

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Limits on enrollment: Indentured apprentice.
Description: Related supplemental instruction of heating, ventilation, air conditioning, and refrigeration for apprentice plumbers and pipefitters.

ARCHITECTURE (ARCH)

ARCH 2.1 HISTORY OF WORLD ARCHITECTURE: PREHISTORY TO GOTHIC

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: Architecture and urbanism in the ancient world, from prehistory to the Gothic period. Social, cultural and physical conditions that influenced the built environment in Europe, Asia, Africa and the Americas.

ARCH 2.2 HISTORY OF WORLD ARCHITECTURE: GOTHIC TO 20TH CENTURY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*

Description: World architecture and urbanism from the Gothic period to the 20th century. Social, cultural and physical conditions which influenced the built environment of Europe, Asia, and the Americas.

ARCH 2.3 HISTORY OF WORLD ARCHITECTURE: 20TH CENTURY TO CONTEMPORARY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: Architecture and urbanism of the modern world, from the 20th century to the present. Social, cultural and physical conditions influencing the built environment of Europe, Asia, Africa, Australia and the Americas.

ARCH 12 INTRODUCTION TO ENVIRONMENTAL DESIGN

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: Exploration of the work done in the design professions: architecture, landscape, and planning. Using case studies and environmental exploration, students will begin the process of articulating a personal design vocabulary. Project based course.

ARCH 25A ARCHITECTURE DESIGN STUDIO 1

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion or Concurrent Enrollment in ARCH 12 AND ARCH 26A AND ARCH 60A.
Transferability: CSU;UC.
Description: This course focuses on the perception and description of the environment to discern, document and develop two- and three-dimensional shapes, forms and relationships which are critical to the development of architectural design ability. It also introduces model building, color theory and the development of architectural concepts such as spatial definition and experiential continua.

ARCH 25B ARCHITECTURAL DESIGN STUDIO 2

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ARCH 25A; AND Course Completion or Current Enrollment in ARCH 26B and ARCH 27.
Transferability: CSU;UC.
Description: The building design process including research and analysis of existing buildings, site analysis and building program; exploration of sustainable site design; the iterative design development process and the development of a design vocabulary through the analysis of the work of contemporary architects.

ARCH 26A VISUAL COMMUNICATION 1

2 Units/1 hour lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
Description: An introduction to manual architectural graphic communication skills including: gesture drawings; sketching from the environment and reference materials; one- and two-point perspective drawing; rendering; and architectural drafting. Both freehand and instrument approaches will be used to document architectural concepts.

ARCH 26B VISUAL COMMUNICATION 2

2 Units/1 hour lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ARCH 26A. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: Continued development of manual architectural graphic communication skills including: gesture drawings; sketching from the environment and reference materials; advanced one- and two-point perspective drawing; rendering; and architectural drawings using both freehand and instrument approaches.

ARCH 60 DIGITAL PRESENTATION GRAPHICS

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of CS 5 (or CIS 5 or BDP 5 or BDP 51).
Transferability: CSU.
Description: An introduction to image editing and page layout digital tools, such as Adobe Photoshop and Adobe InDesign, for the creation of two-dimensional graphic presentation graphics for architecture, and/or interior design, and/or landscape architecture projects.

ARCH 65 3D MODELING WITH REVIT

(Formerly ARCH 27) 2 Units/1 hour lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and completion of CS 5.
Transferability: CSU.
Description: Introduction to the use of Revit for 3D modeling of architecture, interior design, and/or landscape design projects.

ART (ART)

ART 1.1 WORLD ART HISTORY TO 1500

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C1;IGETC area 3A*
Description: This introductory art appreciation course surveys major artistic styles, including European, African, Asian, and American, from prehistoric times until 1500 C.E. The course focuses on the development, diversity, and interaction of art and cultural traditions and emphasizes comparisons of western and non-western visual expression as a reflection of differing cultural perspectives.

ART 1.2 WORLD ART HISTORY SINCE 1500

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C1;IGETC area 3A*
Description: This introductory art appreciation course surveys global artistic styles, including European, African, Asian, Oceanic, and American, from 1500 C.E. through contemporary times. The course focuses on the development, diversity, and interaction of art and cultural traditions and emphasizes comparisons of western and non-western visual expression as a reflection of differing cultural perspectives.

ART 2.1 HISTORY AND APPRECIATION OF PREHISTORIC TO GOTHIC ART

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
C-ID: ARTH 110
GE: *AA/AS area E;CSU area C1;IGETC area 3A*
Description: History and aesthetic appreciation of western art from the Prehistoric through the Gothic period.

ART 2.2 HISTORY AND APPRECIATION OF LATE GOTHIC TO IMPRESSIONIST ART

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: ARTH 120 Series
GE: *AA/AS area E;CSU area C1;IGETC area 3A*
Description: History and aesthetic appreciation of art from the Late Gothic period to Impressionism.

ART 2.3 HISTORY AND APPRECIATION OF MODERN ART

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
C-ID: ARTH 120 Series;ARTH 150
GE: *AA/AS area E;CSU area C1;IGETC area 3A*
Description: History and appreciation of modern and contemporary art from the 19th through 21st Century. Online students will participate in weekly threaded discussion via the message board. (CR/NC option).

ART 3 INTRODUCTION TO ART AND DESIGN

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
C-ID: ARTS 100
GE: *AA/AS area E;CSU area C1;IGETC area 3A*
Description: An introductory studio course in the fundamentals of art and design using shape, value, texture, line, pattern, color and space through exercises in drawing, painting, and collage. The course is accepted for transfer at both the UC and CSU systems.

ART 4 PRINCIPLES OF COLOR

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Recommended: Course Completion of ENGL 1ACourse Completion of ENGL 1ACourse Completion of ENGL 1ACourse Completion of ENGL 1ACourse Completion of ENGL 1A.
Transferability: CSU;UC.
C-ID: ARTS 270
GE: *CSU area C1;IGETC area 3A*
Description: The study and use of color as an element of art and design. Students are given creative problems exploring the interaction of color and the principles of color harmony.

ART 5 THREE DIMENSIONAL DESIGN

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
C-ID: ARTS 101

GE: *AA/AS area E;CSU area C1*
Description: A problem solving approach to spatial organization. Experimental use of paper, cardboard, wood, plastic, wire, string and found objects. Problems designed to encourage personal growth through individual solutions.

ART 7A DRAWING AND COMPOSITION 1

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
C-ID: ARTS 110
GE: *AA/AS area E;CSU area C1*
Description: A basic course in drawing and composition to develop a student's ability to perceive and define shape, mass, contour, volume, space, and light, using a variety of graphic media and subject matter.

ART 7B DRAWING AND COMPOSITION 2

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 7A.
Transferability: CSU;UC.
C-ID: ARTS 205
Description: Pursues in greater depth those aspects of drawing offered in ART 7A; also introduces additional concepts and a greater variety and combination of media and tools. May involve concentration on a theme, subject or problem. Work sessions scheduled in specific areas off campus.

ART 12 BEGINNING FIGURE DRAWING

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Recommended: Course Completion of ART 7A.
Transferability: CSU;UC.
C-ID: ARTS 200
Description: Drawing the human figure employing the basic concepts and skills covered in Art 7A, such as shape, volume, plane, contour, space, light, movement, composition, and expression, using a variety of graphic tools and media.

ART 13 WATERCOLOR

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Recommended: Course Completion of ART 3 or ART 4 or ART 7A.
Transferability: CSU;UC.
Description: A painting course using watercolor to explore light, color, form, and composition. Students will work from still life, landscape, the human figure, and non-objective subject matter.

ART 14A BEGINNING PAINTING

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Recommended: Course Completion of ART 7A.
Transferability: CSU;UC.
C-ID: ARTS 210
Description: An introductory course in painting acrylics or oils involving the basic elements and dynamics of art, such as value, color, texture, dimensional space and compositional factors. Students will be introduced to the various problems and potentials of painting.

ART 14B INTERMEDIATE PAINTING

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 14A or equivalent. Recommended: Course Completion of ART 7A OR ART 3.
Transferability: CSU;UC.
Description: A continuation of the basic pictorial problems and challenges begun in Art 14A, Beginning Painting, introducing more complex subject matter, concepts, and processes.

ART 14C ADVANCED PAINTING

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 14B. Recommended: Course Completion of ART 7A OR ART 3.
Transferability: CSU;UC.
Description: A continuation of the concerns developed in Art 14B, Intermediate Painting, involving more initiative, individual expression and experimentation with media, methods & materials.

ART 19 ELEMENTARY PHOTOGRAPHY

(Formerly ART 36) 3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
C-ID: ARTS 260
Description: A beginning photography class emphasizing comprehension and application of basic elements and concepts of black and white photography. Topics include controlled use of the camera and printing techniques for optimum technical and aesthetic values. Students will develop an understanding of the creative process, visual literacy and photographic theory through lectures, assignments and class critiques. Students must have a 35mm camera with manual controls.

ART 21 INTERMEDIATE BLACK AND WHITE PHOTOGRAPHY

(Formerly ART 37) 3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 19 (or ART 36) OR Course Completion of ART 82.
Transferability: CSU;UC.
Description: An intermediate-level black-and-white photography class emphasizing further comprehension and application of photographic concepts, theories, and material.

ART 22 ADVANCED BLACK AND WHITE PHOTOGRAPHY

(Formerly ART 57) 3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 21.
Transferability: CSU;UC.
Description: Advanced level course for students with technical dark room proficiency wishing to expand their mastery of photo imagery. Students will further their understanding of the creative process, visual literacy and photographic theory through lectures, assignments and class critiques. Students shall prepare a portfolio of black-and-white photographs.

ART 23 COLOR PHOTOGRAPHY

(Formerly ART 61.2) 2 Units/1.25 hours lecture, 2.75 hours laboratory. Grade Only. Prerequisite: Course Completion of ART 21. Recommended: Course Completion of ART 4.
Transferability: CSU;UC.
Description: Introduction to digital and non-digital photographic color theory and usage. Includes the exposure of photographic images and the making of color prints.

ART 24 INTRODUCTION TO THE ART OF PRINTMAKING

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Recommended: Course Completion of ART 3 and ART 7A.
Transferability: CSU;UC.
C-ID: ARTS 220
Description: A basic introduction to printmaking covering traditional techniques including woodcut, linoleum cut, etching, collagraph, monotype, embossing, and stencil.

ART 27A BEGINNING SCREEN PRINTING

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Recommended: Course completion of ART 3, ART 4, or ART 7A.
Transferability: CSU;UC.
Description: Studio course introducing color screen printing as a fine art print medium. Demonstrations and assignments involving stencil, blockout, and photostencil methods.

ART 27B INTERMEDIATE SCREEN PRINTING

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 27A.
Transferability: CSU;UC.
Description: Continued exploration of the screen printing process as a fine art print medium. Increased emphasis on individual projects at a more advanced level of sophistication.

ART 28A BEGINNING ETCHING

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Recommended: Course Completion of ART 7ACourse Completion of ART 7ACourse Completion of ART 7ACourse Completion of ART 7A.
Transferability: CSU;UC.
Description: Use of the etching process as a means of artistic expression. How to etch, ink, and wipe a plate to produce multiple like-images through a series of structured projects. Presentation of the fine print, including care of prints, numbering of editions, and matting techniques.

ART 28B INTERMEDIATE ETCHING

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 28A. Recommended: Course Completion of ART 7ACourse Completion of ART 7A.
Transferability: CSU;UC.
Description: Etching at the intermediate level with the addition of more advanced techniques for processing and printing of plates. Mixing and wiping of colored inks will accompany integrating advanced etching techniques to yield more personalized imagery.

ART 28C ADVANCED ETCHING

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 28B. Recommended: Course Completion of ART 7ACourse Completion of ART 7ACourse Completion of ART 7A.
Transferability: CSU;UC.
Description: Buidling on the fundamentals of intaglio printmaking.

ART 31A BEGINNING CERAMICS

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
C-ID: ARTS 230

Description: An introductory course in ceramics to develop wheel, hand-building, glaze application and decoration techniques.

ART 31B INTERMEDIATE CERAMICS

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 31A.
Transferability: CSU;UC.
Description: Continuation of Art 31A introducing a greater variety of ceramic processes, subject matter and concepts. Experiments in glaze making.

ART 31C ADVANCED CERAMICS 1

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 31B.
Transferability: CSU;UC.
Description: Continuation of Art 31B involving more advanced problem solving, individual expression and experimentation with glaze decoration.

ART 31D ADVANCED CERAMICS II

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 31C.
Transferability: CSU;UC.
Description: This course focuses on individual expression and the preparation of a portfolio. The study includes experimentation with mixed-media, historical/contemporary methods and firing of gas and electric kilns.

ART 33A BEGINNING SCULPTURE

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Recommended: Course Completion of ART 3 or ART 5.
Transferability: CSU;UC.
C-ID: ARTS 240
Description: An introductory course in sculpture focusing on basic form construction techniques using clay, plaster, wood, sheet metal, and found objects.

ART 33B INTERMEDIATE SCULPTURE

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 33A.
Transferability: CSU;UC.
Description: Continuation of ART 33A, introducing a greater variety of concepts and processes for building large-scale sculptures. Experimentation in a variety of methods and materials for full-scale figurative and non-figurative sculpture.

ART 34A CERAMIC SCULPTURE

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: An introductory course in ceramic sculpture to develop hand-building, glaze, and enbobe/underglaze decoration technique.

ART 34B ADVANCED CERAMIC SCULPTURE

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 34A.
Transferability: CSU;UC.
Description: Continuation of Art 34A, introducing a greater variety of ceramic sculpture processes, subject matter,

and concepts. Experimentation in glaze mixing and life-size sculpture.

ART 43 WOMEN AND ART SINCE 1500

(Formerly ART 50) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C1*
Description: This course will provide a chronological, thematic, and cross-cultural examination of the contributions of women as producers, patrons, subjects, and audience of visual arts from the Renaissance to the 21st century. Special attention will be given to issues of sex, gender, race, socio-economic, national, and political identities. The course will highlight social perceptions and obstacles relevant to women in the visual arts and will apply feminist and revisionist critiques to traditional art historical methodologies.

ART 49 INDEPENDENT STUDY IN ART

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Students must submit a Special Studies Application to be considered for Art 49 Independent Study, subject to approval by supervising faculty, department chair, and supervising administrator.
Transferability: CSU;UC.
Description: Seminars or individual conferences by arrangement to provide for independent study and enriched academic experience in studio art or art history. UC determines credit AFTER transfer; not counted for admission. (See a counselor for details.)

ART 53 EXHIBITION DESIGN AND MANAGEMENT

1 Unit/0.75 hour lecture, 1.33 hours laboratory. Grade or P/NP. Recommended: Completion of ART 3, ART 5, or ART 7A.
Transferability: CSU.
Description: Studio class in preparing artwork for gallery exhibition includes: receiving, shipping, conservation, matting, documentation, lighting and installing. This class would be of interest to those students who wish to work in a gallery setting or prepare their artwork for exhibition.

ART 62 ALTERNATIVE PHOTOGRAPHY PROCESSES

3 Units/2 hours lecture, 4 hours by arrangement. Grade Only. Prerequisite: Course Completion of ART 19 (or ART 36) OR ART 82.
Transferability: CSU.
Description: Exploration and use of various historical, contemporary, and non-traditional applications of silver- and non-silver-based photographic processes, including mixed media. Students produce photo-based imagery using a variety of materials in non-traditional presentations.

ART 66.1 STUDIO PHOTOGRAPHY - PORTRAIT

1.5 Units/1 hour lecture, 2 hours laboratory. Grade Only. Prerequisite: Course Completion of ART 19 OR ART 82.
Transferability: CSU.
Description: Exploration and application of studio photo methods: lighting, printing and camera techniques, including the medium-format camera. Students will photograph a variety of subjects as encountered in professional situations.

ART 66.2 STUDIO PHOTOGRAPHY - PRODUCT

1.5 Units/1 hour lecture, 2 hours laboratory. Grade Only. Prerequisite: Course Completion of ART 19 OR ART 82.
Transferability: CSU.
Description: Exploration and application of studio photo methods: lighting, printing and camera techniques, including the medium-format camera and DSLR (digital single-lens reflex). Students will photograph a variety of products as encountered in professional situations.

ART 66.3 PROFESSIONAL PHOTOGRAPHY - EVENT

1.5 Units/1 hour lecture, 2 hours laboratory. Grade Only. Prerequisite: Course Completion of ART 19 OR ART 82.
Transferability: CSU.
Description: Exploration and application of professional photo methods as they relate to events such as: corporate functions, weddings, quinceañeras and other celebrations as encountered in professional situations.

ART 66.4 PROFESSIONAL PHOTOGRAPHY - ARCHITECTURE

1.5 Units/1 hour lecture, 2 hours laboratory. Grade Only. Prerequisite: Course Completion of ART 19 OR ART 82.
Transferability: CSU.
Description: Exploration and application of professional photo methods as they relate to architecture; students will evaluate light, large-format camera techniques and digital approaches. Students will photograph a variety of sights as encountered in professional situations.

ART 69 INTRODUCTION TO CARTOONING AND SEQUENTIAL ART

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 7A. Recommended: Course Completion of ART 3 and ART 12.
Transferability: CSU.
GE: *AA/AS area E*
Description: An introduction to the basic concepts, techniques, and history of cartooning and sequential art. Includes composition, sketching, character design, inking, coloring, lettering and writing for sequential art, using a variety of tools and media.

ART 75 ADVANCED SCULPTURE

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 33B.
Transferability: CSU.
Description: Advanced sculpture with emphasis on personal work and portfolio creation.

ART 82 BEGINNING DIGITAL PHOTOGRAPHY

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP.
Transferability: CSU.
Description: A beginning class emphasizing comprehension and application of basic elements and concepts of digital photography. Topics include controlled use of the camera for optimum technical and aesthetic values. Students will develop an understanding of the creative process, visual literacy and photographic theory through lectures, assignments and class critiques. Students must have a digital camera with manual controls.

ART 83 INTERMEDIATE DIGITAL PHOTOGRAPHY

3 Units/2 hours lecture, 4 hours laboratory. Grade Only. Prerequisite: Course Completion of ART 82.
Transferability: CSU.
Description: Intermediate level digital photography course in asset management and image processing for the

professional photographer, using cutting edge, industry software, such as Adobe Lightroom. Students need to bring their own Digital Single-Lens Reflex (DSLR camera).

ART 112A INTERMEDIATE FIGURE DRAWING

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 12.
Description: A continuation of the basic pictorial problems and challenges begun in Art 12, introducing more complex subject matter, concepts, and processes.

ART 112B ADVANCED FIGURE DRAWING

3 Units/2 hours lecture, 4 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of ART 112A.
Description: A continuation of the concepts developed in Art 112A involving more initiative, individual expression, and experimentation with media, methods & materials.

ASTRONOMY (ASTRON)

ASTRON 3 STELLAR ASTRONOMY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Completion or Concurrent Enrollment in Math 150A AND English 100 or ESL 100.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU area B1;IGETC area 5A*
Description: A description of the universe, concentrating on celestial bodies and phenomena beyond the Solar System. Topics will include electromagnetic radiation, observed properties of stars, variable and binary stars, stellar evolution, black holes, relativity, the interstellar medium, star clusters, the Milky Way and other galaxies, cosmology, and the possibility of other life forms in the universe.

ASTRON 3L STELLAR ASTRONOMY LABORATORY

1 Unit/3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in ASTRON 3.
Transferability: CSU;UC.
GE: *CSU area B3;IGETC area 5C*
Description: Analysis and reduction of basic astronomical data concerning stars, nebulae, and galaxies. Using collaborative activities, photos, spectra, and direct observations, the student will arrive at conclusions concerning fundamental properties of the universe. Topics will include electromagnetic radiation, observed properties of stars, variable and binary stars, stellar evolution, black holes, the interstellar medium, star clusters, the Milky Way and other galaxies, cosmology, and the possibility of other life forms in the universe.

ASTRON 4 ASTRONOMY OF THE SOLAR SYSTEM

3 Units/3 hours lecture. Grade or P/NP. Recommended: Completion of MATH 150A or higher AND Completion of ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU area B1;IGETC area 5A*
Description: A descriptive introduction to the Solar System including the Sun, Moon, planets, asteroids, and

comets.Topics will include lunar phases, eclipses, historical geocentric and heliocentric models of the cosmos, planetary geology, planetary atmospheres and climates, the formation of the Solar System, and extrasolar planetary systems.

ASTRON 4L SOLAR SYSTEM ASTRONOMY LABORATORY

1 Unit/3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in ASTRON 4.
Transferability: CSU;UC.
GE: *CSU area B3;IGETC area 5C*
Description: Analysis and interpretation of astronomical data. Using collaborative activities, photos, spectra, and direct observations, the student will arrive at conclusions concerning fundamental properties of the Solar System, comparative planetology, and planetary atmospheres.

ASTRON 12 ASTRONOMY OBSERVATIONAL LAB

1 Unit/3 hours by arrangement. Grade or P/NP. Prerequisite: Course Completion or Concurrent Enrollment in ASTRON 3; OR ASTRON 4; OR ASTRON 5. Recommended: Eligibility for MATH150A; Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *CSU area B3;IGETC area 5C*
Description: Observational laboratory in astronomy. Students will utilize small aperture telescopes, binoculars, star charts and planispheres. Constellation identification and terrestrial and celestial coordinate systems will be introduced. Short exposure and deep sky astrophotography will be conducted. In the case of inclement weather, students will utilize the planetarium, classroom, or computer lab to perform required labs.

ATHLETICS (ATHL)

ATHL 1 INTERCOLLEGIATE PHYSICAL FITNESS

(Formerly ATHL 90) 1 Unit/2 hours by arrangement. Grade or P/NP.
Transferability: CSU;UC.
Description: Sports specific cardiovascular, muscular, and flexibility training designed to enhance athletic performance.
4 Enrollments Total

ATHL 2 YOGA FOR INTERCOLLEGIATE ATHLETES

1.5 Units/3 hours by arrangement. Grade or P/NP.
Transferability: CSU;UC.
Description: This class will introduce intercollegiate athletes to yoga techniques related to sport performance, injury prevention, and mental skills. Using Hatha yoga asanas (postures), students will emphasize sport-specific flexibility, strength, balance, and coordination. Yoga techniques for mind-body connection and centering will include breathing and relaxation methods.
4 Enrollments Total

ATHL 3 OFF-SEASON TRAINING FOR INTERCOLLEGIATE ATHLETICS

1 Unit/2 hours by arrangement. Grade Only.
Transferability: CSU;UC.
Description: Sport specific techniques, strategies and training designed for off-season intercollegiate athletes.
4 Enrollments Total

ATHL 8 VARSITY WRESTLING

(Formerly ATHL 54) 3 Units/6 hours by arrangement. Grade or P/NP. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: This course includes practice and participation for intercollegiate wrestling, emphasizing wrestling skills, fundamentals, and strategies.
4 Enrollments Total

ATHL 9 WOMEN'S VARSITY WATER POLO

(Formerly ATHL 51) 3 Units/6 hours by arrangement. Grade or P/NP.
Transferability: CSU;UC.
Description: Practice for and participation in intercollegiate water polo, emphasizing water polo skills, fundamentals and strategies.
4 Enrollments Total

ATHL 10 MEN'S VARSITY WATER POLO

(Formerly ATHL 50) 3 Units/6 hours by arrangement. Grade or P/NP.
Transferability: CSU;UC.
Description: Practice for and participation in intercollegiate water polo, emphasizing water polo skills, fundamentals and strategies.
4 Enrollments Total

ATHL 10L WATER POLO LAB

1.5 Units/3 hours by arrangement. Grade or P/NP. Recommended: Concurrent Enrollment in ATHL 10 or ATHL 9. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: Introduction to the structure and development of various water polo strategies. This course will include analysis of scouting reports and film reviews, as well as the practical application of various physical training concepts.
4 Enrollments Total

ATHL 11 MEN'S VARSITY BASEBALL

(Formerly PE 50) 3 Units/6 hours by arrangement. Grade or P/NP.
Transferability: CSU;UC.
Description: Practice for and participation in intercollegiate competition, emphasizing baseball skills, fundamentals and strategies.
4 Enrollments Total

ATHL 11L BASEBALL LABORATORY

(Formerly PE 97) 1.5 Units/3 hours by arrangement. Grade or P/NP. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: Introduction to the structure and development of various baseball strategies. This course will include analysis of scouting reports and film reviews as well as the practical application of various physical training concepts and techniques.
4 Enrollments Total

ATHL 13 MEN'S VARSITY BASKETBALL

(Formerly PE 51A) 1.5 Units/3 hours by arrangement. Grade or P/NP. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: This course includes practice and participation for intercollegiate competition, emphasizing basketball skills, fundamentals, and strategies.
4 Enrollments Total

ATHL 14 WOMEN'S VARSITY BASKETBALL

(Formerly PE 75A) 1.5 Units/3 hours by arrangement. Grade or P/NP. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: This course includes practice and participation for intercollegiate competition, emphasizing basketball skills, fundamentals, and strategies.
4 Enrollments Total

ATHL 15L BASKETBALL LAB

(Formerly PE 70.2) 1 Unit/2 hours by arrangement. Grade or P/NP. Prerequisite: Course Completion of ATHL 14.
Transferability: CSU;UC.
Description: Introduction to the structure and development of various basketball strategies. This course will include analysis of scouting reports and film reviews as well as the practical application of various physical training concepts.
4 Enrollments Total

ATHL 16 TECHNIQUES AND THEORY OF BASKETBALL

(Formerly PE 70.1) 1.5 Units/3 hours by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
Description: Introduction to the fundamental techniques and theories of basketball. This course will cover individual offensive and defensive strategies as well as team offensive and defensive strategies.
4 Enrollments Total

ATHL 17 MEN'S VARSITY CROSS COUNTRY

(Formerly PE 52) 3 Units/6 hours by arrangement. Grade or P/NP. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: This course includes practice and participation for intercollegiate competition in cross country running, fundamentals, and strategies.
4 Enrollments Total

ATHL 17L CROSS COUNTRY LAB

1.5 Units/3 hours by arrangement. Grade or P/NP.
Transferability: CSU.
Description: Introduction to the fundamental techniques and theories of cross country training. This course will cover individual and team strategies and techniques.
4 Enrollments Total

ATHL 18 WOMEN'S VARSITY CROSS COUNTRY

(Formerly PE 55) 3 Units/6 hours by arrangement. Grade or P/NP. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: This course includes practice and participation for intercollegiate competition in cross country running, fundamentals, and strategies.
4 Enrollments Total

ATHL 21 VARSITY FOOTBALL

(Formerly PE 53) 3 Units/6 hours by arrangement. Grade or P/NP. Limits on enrollment: By try out.
Transferability: CSU;UC.
Description: This course includes practice and participation for intercollegiate competition, emphasizing football skills, fundamentals, and strategies.
4 Enrollments Total

ATHL 22.1L DEFENSIVE FOOTBALL LABORATORY

(Formerly ATHL 22L.1) 1.5 Units/3 hours by arrangement. Grade or P/NP.
Transferability: CSU;UC.
Description: Introduction to the structure and development of various defensive football strategies. This course will include analysis of scouting reports and film reviews; as well as the practical application of various physical training concepts.
4 Enrollments Total

ATHL 22.2L OFFENSIVE FOOTBALL LABORATORY

(Formerly ATHL 22L.2) 1.5 Units/3 hours by arrangement. Grade or P/NP.
Transferability: CSU;UC.
Description: Introduction to the structure and development of various offensive football strategies. Will include analysis of scouting reports and film reviews, as well as the practical application of various physical training concepts.
4 Enrollments Total

ATHL 24 VARSITY GOLF

(Formerly PE 54) 3 Units/6 hours by arrangement. Grade or P/NP.
Transferability: CSU;UC.
Description: This course includes practice and participation for intercollegiate golf competition, emphasizing skills, fundamentals, and strategies.
4 Enrollments Total

ATHL 27 MEN'S VARSITY SOCCER

(Formerly PE 62) 3 Units/6 hours by arrangement. Grade or P/NP.
Transferability: CSU;UC.
Description: Practice for and participation in intercollegiate competition in men's soccer, emphasizing soccer skills, fundamentals and strategies.
4 Enrollments Total

ATHL 28 WOMEN'S VARSITY SOCCER

(Formerly PE 63) 3 Units/6 hours by arrangement. Grade or P/NP. Limits on enrollment: By tryout
Transferability: CSU;UC.
Description: Practice for and participation in intercollegiate competition in women's soccer, emphasizing soccer skills, fundamentals and strategies.
4 Enrollments Total

ATHL 29L SOCCER LAB

(Formerly PE 71.2) 1.5 Units/3 hours by arrangement. Grade or P/NP. Prerequisite: Concurrent Enrollment in Varsity Soccer ATHL 27 or ATHL 28.
Transferability: CSU;UC.
Description: Introduction to the structure and development of various soccer strategies. This course will include analysis of scouting reports and film reviews; as well as the practical application of various physical training concepts.
4 Enrollments Total

ATHL 30 THEORY AND ANALYSIS OF SOCCER

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Explanation, organization, and development of various tactical and technical systems in soccer.
4 Enrollments Total

ATHL 31 WOMEN'S VARSITY SOFTBALL

(Formerly PE 89) 3 Units/6 hours by arrangement. Grade or P/NP.
Transferability: CSU;UC.
Description: Practice for and participation in intercollegiate softball, emphasizing softball skills, fundamentals and strategies.
4 Enrollments Total

ATHL 31L SOFTBALL LAB

1.5 Units/3 hours by arrangement. Grade or P/NP. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: Introduction to the structure and development of various softball strategies. This course will include analysis of scouting reports and film reviews as well as the practical application of various physical training concepts.
4 Enrollments Total

ATHL 33 MEN'S VARSITY SWIMMING AND DIVING

(Formerly PE 64) 3 Units/6 hours by arrangement. Grade or P/NP. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: Practice for and participation in intercollegiate swimming and diving; emphasizing swimming and diving skills, fundamentals and strategies.
4 Enrollments Total

ATHL 34 WOMEN'S VARSITY SWIMMING AND DIVING

(Formerly PE 90) 3 Units/6 hours by arrangement. Grade or P/NP. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: Practice for and participation in intercollegiate swimming and diving; emphasizing swimming and diving skills, fundamentals and strategies.
4 Enrollments Total

ATHL 37 MEN'S VARSITY TENNIS

(Formerly PE 65) 3 Units/6 hours by arrangement. Grade or P/NP. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: This course includes practice and participation for intercollegiate competition, emphasizing tennis skills, fundamentals, and strategies.
4 Enrollments Total

ATHL 38 WOMEN'S VARSITY TENNIS

(Formerly PE 91) 3 Units/6 hours by arrangement. Grade or P/NP. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: This course includes practice and participation for intercollegiate tennis, emphasizing tennis skills, fundamentals, and strategies.
4 Enrollments Total

ATHL 41 MEN'S VARSITY TRACK AND FIELD

(Formerly PE 66) 3 Units/6 hours by arrangement. Grade or P/NP. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: Practice for and participation in intercollegiate competition in track and field, emphasizing track and field skills, fundamentals and strategies.
4 Enrollments Total

ATHL 41L TRACK & FIELD LAB

1.5 Units/3 hours by arrangement. Grade or P/NP.
Transferability: CSU.
Description: Introduction to the fundamental techniques and theories of track & field training. This course will cover individual as well as team strategies and techniques.
4 Enrollments Total

ATHL 42 WOMEN'S VARSITY TRACK AND FIELD

(Formerly PE 67) 3 Units/6 hours by arrangement. Grade or P/NP.
Transferability: CSU;UC.
Description: Practice for and participation in intercollegiate competition in track and field, emphasizing track and

field skills, fundamentals and strategies.
4 Enrollments Total

ATHL 45 WOMEN'S VARSITY VOLLEYBALL

(Formerly PE 93) 3 Units/6 hours by arrangement. Grade or P/NP. Limits on enrollment: By Tryout
Transferability: CSU;UC.
Description: This course includes practice and participation for intercollegiate volleyball, emphasizing volleyball skills, fundamentals, and strategies.
4 Enrollments Total

ATHL 45L VOLLEYBALL LAB

(Formerly PE 96) 1.5 Units/3 hours by arrangement. Grade or P/NP. Recommended: Concurrent Enrollment in KTEAM 8.3 OR Concurrent Enrollment in ATHL 45.
Transferability: CSU;UC.
Description: Introduction to the structure and development of various volleyball strategies. This course will include analysis of scouting reports and film reviews; as well as the practical application of various physical training concepts.
4 Enrollments Total

AUTOMOTIVE TECHNOLOGY (AUTO)

AUTO 80 INTRODUCTION TO AUTOMOTIVE TECHNOLOGY

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Introduction to theory of operation, routine maintenance, technical vocabulary, components, systems, use of basic tools and safety procedures relating to the automobile and the automotive repair technician. Workplace skills covered will include the basic maintenance and repair of the automobile and its systems for the entry level auto maintenance technician.

AUTO 98 INDEPENDENT STUDY IN AUTO MECHANICS

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU.
Description: Seminars or individual conferences by arrangement to provide for independent study and enriched academic experience in auto mechanics.

AUTO 99 AUTOMOTIVE OCCUPATIONAL WORK EXPERIENCE

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Students must have a job in a licensed business that is directly related to their educational or occupational goal. Units earned are based on hours worked during the term.
Transferability: CSU.
Description: Automotive Occupational Work Experience is supervised employment of students that extends

classroom learning to the job site and relates to the student's educational or occupational goal in automotive technology. The course is for students who work in a job that is related to their chosen course of study in automotive technology.
16 Units Total (WrxEx only)

AUTO 108 CLEAN AIR CAR COURSE: BAR LEVELS 1 & 2

5 Units/5 hours lecture, 1 hour laboratory. Grade or P/NP. Recommended: Course completion or Concurrent Enrollment in Auto 156 and Auto 153.
Description: This course is designed for automotive professionals who wish to obtain or renew a State of California BAR (Bureau of Automotive Repair) smog license. This is a BAR approved training class, which includes both Level 1 and Level 2 training. This BAR training meets part of the qualifications needed to take the Smog Technician licensing examination. A minimum of nine units completed in Auto Electric and Engine Performance education OR one year of verifiable trade experience in auto electrical, engine performance and emission control diagnosis & repair, is strongly recommended in order to be successful in this course.

AUTO 120 AUTOMOTIVE SERVICE ADVISOR, BUSINESS ETHICS, AND MANAGEMENT

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course provides studies in automotive service advising, business ethics, and management. Topics include business ethics, customer interaction, preparation of service documents, estimating job bids (in accordance with California legal requirements), conflict resolution, and delivery of the vehicle to the customer.

AUTO 126 MOBILE HEATING AND AIR CONDITIONING SYSTEMS

2.5 Units/2 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of AUTO 80 OR Course Completion of DET 179 (or DET 80 or DET 60). Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Theory, service and repair of many types of mobile heating and air conditioning systems. Includes environmental and safety concerns using R-12, R-134a, and R-1234yf refrigerants. Engine heating and cooling, manual and automatic system controls will also be introduced. Prepares the student to take the A7 & T7 ASE (Automotive Service Excellence) certification exams.

AUTO 151 AUTOMOTIVE ENGINES

(Formerly AUTO 51) 7 Units/5 hours lecture, 7 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100; AND Course Completion of IED 190 and AUTO 80.
Description: Theory, design, operation, troubleshooting and overhaul of internal combustion automobile engines. Lecture, demonstration and practical lab experience also emphasize proper and safe use of tools and equipment. Prepare students to take the ASE (Automotive Service Excellence) Engine Repair Certification exam (A-1).

AUTO 153 AUTOMOTIVE ENGINE PERFORMANCE AND POLLUTION CONTROL

7 Units/6 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of AUTO 56.
Description: Lecture, demonstration and practical lab experience in the operation, troubleshooting and repair of the ignition, fuel and pollution control systems of late model automobiles. Emphasis on safety and the proper use of tools and diagnostic equipment. Course prepares students to pass the ASE (Automotive Service Excellence) A8

Engine Performance Certification Exam and enter the automotive trade as an apprentice level technician specializing in engine performance and emission control. This course conforms with National Automotive Technicians Education Foundation (NATEF) instructional guidelines.

AUTO 154 AUTOMOTIVE BRAKES, STEERING, AND SUSPENSION

(Formerly AUTO 54) 7 Units/5 hours lecture, 7 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion or Concurrent Enrollment in AUTO 80.
Description: Lecture, demonstration, and practical lab experience in the operation, troubleshooting, and repair of the brake, steering, and suspension systems of most late model automobiles. Emphasis on safety and the proper use of tools, machinery, and shop equipment related to those systems. Course prepares students to pass the ASE (Automotive Service Excellence) certification tests; A4-Suspension and Steering and A5-Brakes. Students will be prepared to enter the automotive trade as apprentice level technicians specializing in brake, steering, and suspension repair. This course conforms with National Automotive Technicians Education Foundation (NATEF) instructional guidelines.

AUTO 155 AUTOMOTIVE DRIVE TRAIN

(Formerly AUTO 53) 6 Units/4 hours lecture, 7 hours laboratory. Grade Only. Recommended: Course Eligibility for ENGL 100 or ESL 100 and Course Completion of AUTO 100.
Description: An in depth study of automotive drive train systems for the entry level auto student. Course covers theory, operation, diagnosis, service and overhaul of most automotive automatic and manual transmissions and trans axles, drive axles and all wheel drive systems. Diagnosis of modern drive train systems is emphasized. Instruction includes lecture and practical lab experience. Course prepares student for A2 and A3 ASE (Automotive Service Excellence) exams.

AUTO 156 AUTOMOTIVE ELECTRICAL SYSTEM

5 Units/4 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: The operation, diagnosis and repair of automotive electrical and electronic systems. Techniques of troubleshooting, service, and repair of starting, charging, and other chassis and body electrical systems. Introduction to computer controlled systems. Prepare students to take the ASE (Automotive Service Excellence) A6 Electrical/Electronics Certification. This course conforms with National Automotive Technicians Education Foundation (NATEF) instructional guidelines.

AUTO 194 INTRODUCTION TO HYBRID VEHICLE MAINTENANCE AND REPAIR

4 Units/3.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100; and Course Completion of AUTO 80 and AUTO 156 and IED 190.
Description: Principles and functions of hybrid automobiles and procedures for their maintenance, problem diagnosis and repair. Function of individual system components examined. Critical importance of safety and hybrid-unique equipment and procedures, maintenance procedures and diagnostic and repair processes for at least one type of hybrid (Parallel or Series-Parallel) taught in detail.

BEER BREWING (BREW)

BREW 100 FUNDAMENTALS OF FERMENTATION SCIENCE

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Concurrent Enrollment in BREW 112. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be age 18 or older
Description: Overview of beer brewing including history, malting, brewing, fermentation, finishing, and packaging, with a focus on ingredients and their effect on color, aroma, and flavor.

BREW 112 ANALYSIS OF FERMENTATION

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Concurrent Enrollment in BREW 100. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be age 18 or older
Description: Sensory evaluation, lab analysis, and quality assurance in beer production. Perform small scale brewing to determine the impact of different ingredient recipes on the final product.

BREW 120 BREWERY OPERATIONS AND TECHNOLOGY

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of BREW 100 and BREW 112; AND Concurrent Enrollment in BREW 122. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be age 18 or older
Description: Brewery equipment requirements and operation. Brewery design and its impact on operation, sustainability, sanitation, and final product.

BREW 122 APPLIED FERMENTATION SCIENCE

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of BREW 100 and BREW 112; AND Concurrent Enrollment in BREW 120. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be age 18 or older
Description: Operation of pilot scale and commercial brewhouse to produce various beer styles from lager to stout to barley wine. Brewing will be preceded by a short lecture on each beer style.

BEHAVIORAL SCIENCE (BEHSC)

BEHSC 49 INDEPENDENT STUDY IN BEHAVIORAL SCIENCES

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by supervising faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Seminars or individual conferences by arrangement to provide for independent study and enriched academic experience. UC determines credit AFTER transfer; not counted for admission. (See a counselor for details.)

BIOLOGY (BIO)

BIO 2.1 FUNDAMENTALS OF BIOLOGY (CELL AND MOLECULAR)

(Formerly BIO 3) 5 Units/3 hours lecture, 6 hours laboratory. Grade Only. Prerequisite: Course Completion of CHEM 1A OR CHEM 4A; AND Course Completion of BIO 10 AND ENGL 1A.
Transferability: CSU;UC.
C-ID: BIOL 190
GE: *AA/AS area C;CSU areas B2,B3;IGETC areas 5B,5C*
Description: Cell structure and function, origin, evolution and diversity of cells, biochemistry, metabolism, Mendelian genetics, molecular genetics, cell regulation, cell differentiation and evolutionary development. Intended for students majoring in biological sciences, pre-medical or related pre-professional programs. (Formerly BIO 1.3, BIO 3)

BIO 2.2 FUNDAMENTALS OF BIOLOGY (EVOLUTION, GENETICS, AND ZOOLOGY)

(Formerly BIO 2A) 5 Units/3 hours lecture, 6 hours laboratory. Grade Only. Prerequisite: Course Completion of BIO 2.1.
Transferability: CSU;UC.
C-ID: BIOL 150
GE: *AA/AS area C;CSU areas B2,B3;IGETC areas 5B,5C*
Description: Covers scientific method, evolution, genetics, and the phylogeny of animals with emphasis on development, morphology, physiology and behavior. Field trips taken. Intended for students majoring in biological sciences, pre-medical, or related pre-professional programs. (Formerly BIO 1.2, BIO 2A)

BIO 2.3 FUNDAMENTALS OF BIOLOGY (BOTANY AND ECOLOGY)

(Formerly BIO 2B) 5 Units/3 hours lecture, 6 hours laboratory. Grade Only. Prerequisite: Course Completion of BIO 2.1.
Transferability: CSU;UC.
C-ID: BIOL 155
GE: *AA/AS area C;CSU areas B2,B3;IGETC areas 5B,5C*
Description: Covers the principles of ecology and the phylogeny of bacteria, protists, fungi, and plants with emphasis on development, morphology, and physiology of higher plants. Field trips taken. Intended for students majoring in biological sciences, pre-medical, or related pre-professional programs.

BIO 7 INTRODUCTION TO STEM CAREERS

1 Unit/1 hour lecture. Grade or P/NP. Prerequisite: Course Completion of BIO 10 OR CHEM 42 OR ENGR 10 OR MATH 58 OR MATH 25; OR MATH 27 or higher (MATH). Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: This course covers the methods for development of career pathways in fields such as science, technology, engineering, and mathematics (STEM). Students will learn to use STEM related job-search tools, identify key job skills, develop a plan for acquiring those skills, and how to use science communication skills related to a particular career or area of research in which the student has an interest.

BIO 10 INTRODUCTION TO PRINCIPLES OF BIOLOGY

4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Completion of MATH 150A or MATH 150 or higher (MATH) or qualifying placement.
Transferability: CSU;UC.

GE: *AA/AS area C;CSU areas B2,B3;IGETC areas 5B,5C*
Description: Introductory course in biology including: scientific method, ecology, biodiversity, physiology and anatomy, chemistry of life, cell and molecular biology, genetics, and evolution.

BIO 12 BASIC CONCEPTS OF ECOLOGY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *AA/AS areas C,H;CSU area B2;IGETC area 5B*
Description: Basic principles of ecology including ecosystems, community and population biology, and their application to problems of renewable resources, resource management, conservation, and global environmental issues.

BIO 13 HUMAN BIOLOGY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU area B2;IGETC area 5B*
Description: Survey course primarily for students not majoring in biological sciences, presenting topics from biology dealing specifically with humans. Topics include cellular biology, genetics, anatomy and physiology, reproduction, evolution, and human impacts on the environment. Not an anatomy and physiology course.

BIO 14 CURRENT ISSUES IN BIOLOGY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *AA/AS area C*
Description: An introduction for non-majors to the core principles of biology through the study of current issues in modern biology. Topics include ecology, evolution, anatomy, physiology, genetics, molecular, and cell biology.

BIO 16 INTRODUCTION TO BIOLOGY FOR NON-MAJORS

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU areas B2,B3;IGETC areas 5B,5C*
Description: An introduction for non-majors to the core concepts of biology by studying current issues in modern biology with an emphasis on the scientific method and scientific literacy.

BIO 25 MARINE BIOLOGY

4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
GE: *AA/AS areas C,H;CSU areas B2,B3;IGETC areas 5B,5C*
Description: Introduction to biological oceanography, natural history, taxonomy, and ecology of major plant and animal groups of the world's oceans with emphasis on the Pacific Coast of North America. Examines human interactions with, and impacts upon, the marine environment.

BIO 27 BIOLOGY OF MARINE MAMMALS

3 Units/3 hours lecture. Grade or P/NP.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU area B2;IGETC area 5B*
Description: Introduction to the biology, natural history, evolution, behavior, anatomy, physiology and population ecology of marine mammals, including whales, dolphins, pinnipeds, otters, manatees and dugongs.

BIO 31 TROPICAL BIODIVERSITY AND CONSERVATION

2 Units/1.5 hours lecture, 1.5 hours by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU area B2;IGETC area 5B*
Description: Survey of the ecology, flora, and fauna of rainforests, cloud forests, and dry forests. Typically taught abroad. Countries such as Costa Rica are used to illustrate both the current extinction crisis and conservation efforts.

BIO 49 INDEPENDENT STUDY IN BIOLOGY

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Independent study in a biological discipline by literature, field, or laboratory research. UC determines credit after transfer; not counted for admission. (See a counselor for details.)

BIO 85.1 PEPPERWOOD NATURAL HISTORY: PHYSICAL ENVIRONMENT

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: A survey of the natural history of the Pepperwood Preserve, emphasizing earth sciences and native cultures (offered Fall semester only). Laboratory hours are primarily in the field and will include hiking over uneven terrain. This course (along with BIO/ERTHS 85.2) is a component of the Pepperwood Preserve Steward training program.

BIO 85.2 PEPPERWOOD NATURAL HISTORY- BIOTIC ENVIRONMENT

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: A survey of the natural history of the Pepperwood Preserve, emphasizing the flora, fauna, and ecology (offered Spring semester only). Laboratory hours are primarily in the field and will include hiking over uneven terrain. This course (along with BIO/ERTHS 85.1) is a component of the Pepperwood Preserve Steward training program

BIO 100 BASIC BIOLOGY SKILLS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ENGL 102 or ESL 100.
Description: Introductory course to develop skills necessary for completion of Introduction to Principles of Biology (BIO 10). Course is designed for students who have not developed the skills necessary for successful completion of college transfer-level science courses. Class will apply basic study skills to the understanding of biological elements in living systems, from the level of atoms to ecosystems. A specific focus topic such as water will be used to relate learning skills to specific biological information.

BOTANY (BOTANY)

BOTANY 10 PLANT BIOLOGY

4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU areas B2,B3;IGETC areas 5B,5C*
Description: A general education course in plant biology emphasizing the structure and function of plants. Includes genetics, ecology, evolution, reproduction, and diversity of plant life forms.

BOTANY 60 FIELD BOTANY

4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP.
Transferability: CSU.
GE: *AA/AS area C;CSU areas B2,B3*
Description: Survey of the vegetation and flora of Northern California. Includes the identification and ecology of species that are representative of local plant communities. Field trips required.

BOTANY 64 PLANTS OF THE NORTHERN SIERRA

2 Units/1 hour lecture, 3 hours by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Field course introducing the plant communities of the Sierra Nevada north of Lake Tahoe, emphasizing the taxonomy and ecology of the ferns, conifers and flowering plants.

BUSINESS ADMINISTRATION (BAD)

BAD 1 FINANCIAL ACCOUNTING

4 Units/4 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates.
Transferability: CSU;UC.
C-ID: ACCT 110
Description: This course introduces the student to the role of accounting in processing and reporting the effects of economic transactions. It examines financial accounting from both the user and preparer perspectives. It teaches how information is processed and reported by the accounting information system as well as how the reports are used by investors and creditors in making decisions. The economic transactions are also analyzed by type of business activity: operating, investing, or financing and their impact on cash flows and profitability for both service and merchandising concerns. The ability to perform basic spreadsheet functions is highly recommended. The course objectives comply with the California Core Competency Model developed by the California Society of Certified Public Accountants' Committee on Accounting Education. This course will prepare the transfer degree and/or certificate student for business or accounting programs.

BAD 2 MANAGERIAL ACCOUNTING

4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Course Completion of BAD 1.
Transferability: CSU;UC.
C-ID: ACCT 120
Description: This course focuses on the use of accounting information by managers in making internal decisions relating to product/service costing, pricing, cost analysis and control, operational and capital budgeting and responsibility reporting. Students use decision making techniques and models which assist managers in planning and controlling operations. These objectives comply with the California Core Competency Model developed by the California Society of Certified Public Accountants' Committee on Accounting Education. This course will prepare the transfer degree and certificate students for business or accounting programs.

BAD 10 AMERICAN BUSINESS IN ITS GLOBAL CONTEXT

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
C-ID: BUS 110
GE: *AA/AS areas D,H;CSU area D*
Description: American business as both institution and organization considered in its natural, social, and global economic environments. An overview of the principal functions of business firm: business goals and strategy; financial management and institutions; organization structure and management; marketing; computing technologies, telecommunications, and information sciences; social, legal and regulatory responsibilities; described within the emerging global business context. Emphasis on concepts and terminology relevant to the new global business environment.

BAD 18 THE LEGAL ENVIRONMENT OF BUSINESS

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: BUS 120
Description: The environmental, social, ethical and political factors which influence the development and operation of the American legal system; law of contracts and sales emphasizing California law and the Uniform Commercial Code. Case methods utilized. Recommended for Business Administration majors intending to transfer to a 4-year institution.

BAD 52 HUMAN RELATIONS IN ORGANIZATIONS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
GE: *AA/AS area B;CSU area E*
Description: Human relations addresses issues of self-esteem, values, attitudes, motivation, communications, team dynamics, change, creativity, conflict, stress, diversity, ethics, and health. This course is an exploration of the awareness and self-understanding of how interpersonal skills influence relationships with others and how to enhance those skills to be more successful as a member of a work environment and society.

BAD 53 INTRODUCTION TO SOLVING BUSINESS PROBLEMS WITH SPREADSHEETS

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course is designed to introduce the student to the use of computer spreadsheet programs in

solving business problems and improving the decision-making process. Students will create models applicable to the functional areas of finance and accounting, sales and marketing, management and human resources using a broad range of spreadsheet skills. Previous experience with computer spreadsheets is not required.

BAD 55 INTERMEDIATE ACCOUNTING

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of BAD 2.
Transferability: CSU.
Description: Intermediate accounting with theory and practical applications including the accounting process; income measurement; balance sheet preparation; cash flow and the valuation of receivables, inventories, plant, equipment and intangible assets.

BAD 57 COST ACCOUNTING

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of BAD 2.
Transferability: CSU.
Description: Cost accounting including job, process, activity-based costing, and standard costing. Evaluative techniques using cost data to effectively manage organizational costs.

BAD 59 FEDERAL INCOME TAX LAW

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of BAD 1 OR Course Completion of BBK 51.
Transferability: CSU.
Description: Current Federal Revenue Act as applied to individuals. Includes filing of returns, income items and adjustments, itemized deductions, capital, and other gains and losses.

BAD 98 INDEPENDENT STUDY IN BUSINESS ADMINISTRATION

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU.
Description: Special projects by arrangement to provide for independent study and enriched academic experience in Business Administration.

BAD 99 BUSINESS ADMINISTRATION OCCUPATIONAL WORK EXPERIENCE

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Students must have a job in a licensed business that is directly related to their educational or occupational goal. Units earned are based on hours worked during the term.
Transferability: CSU.
Description: Business Administration Occupational Work Experience is supervised employment of students that extends classroom learning to the job site and relates to the student's educational or occupational goal in business administration. The course is for students who work in a job that is related to their chosen course of study in business administration.
16 Units Total (WrxEx only)

BAD 101 ENROLLED AGENT – INDIVIDUAL TAXATION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of BGN 81.
Description: This is one of a series of courses designed to prepare students to take the Internal Revenue Service (IRS) Enrolled Agent Exam. This course covers tax issues that relate to individuals which include: filing requirements, calculation for gross income, itemized deductions, tax credits, capital gains and losses, property transactions, individual retirement accounts, gift and estate taxes.

BAD 102 ENROLLED AGENT - BUSINESS TAXATION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of BGN 81.
Description: This is one of a series of courses designed to prepare students to take the Internal Revenue Service (IRS) Enrolled Agent Exam. This course covers tax issues that relate to businesses which include: business entity types, income, business expenses and other deductions, adjustments to cost basis, depreciation, depletion, amortization, credits and other losses and partnerships and corporations' formation, contributions, disposition, distributions and retirement plans.

BAD 103 ENROLLED AGENT - TAX REPRESENTATIONS, PRACTICES & PROCEDURES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of BGN 81.
Description: This is one of a series of courses designed to prepare students to take the Internal Revenue Service (IRS) Enrolled Agent Exam. This course covers income tax issues that relate to requirements of individuals who may become Enrolled Agents and the extent of practice privileges, sanctionable acts and assessment and appeal procedures for preparer penalties.

BAD 104 ENROLLED AGENT – CURRENT APPLICATIONS AND IRS REQUIREMENTS

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion or Current Enrollment of BAD 101, BAD 102, and BAD 103. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of BGN 81.
Description: This is last in a series of courses (capstone), designed to prepare students to take the Internal Revenue Service (IRS) Enrolled Agent Exam. This course reviews components of the Enrolled Agent Exam and current applications in the field.

BAD 156 FUND ACCOUNTING

(Formerly BAD 56) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of BAD 1.
Description: Accounting for not-for-profit organizations: accounting theory and techniques for governmental units and other not-for--profit organizations.

BUSINESS BOOKKEEPING (BBK)

BBK 50 COMPUTERIZED BOOKKEEPING AND ACCOUNTING 1

3 Units/3 hours lecture, 1 hour laboratory. Grade Only. Recommended: Course Completion or Concurrent Enrollment in BGN 81.
Transferability: CSU.
Description: Students will learn to record business transactions in journals and ledgers, compute payroll, and prepare financial statements using both a manual and computerized system for a sole proprietorship.

BBK 51 COMPUTERIZED BOOKKEEPING AND ACCOUNTING 2

3 Units/3 hours lecture, 1 hour laboratory. Grade Only. Prerequisite: Course Completion of BBK 50.
Transferability: CSU.
Description: Students analyze, categorize, and record transactions for merchandising firms including sole proprietorships and corporations. Students will prepare and analyze financial statements and other financial reports, using both manual and computerized bookkeeping systems, such as Microsoft Excel and/or QuickBooks.

BBK 52.1 PAYROLL RECORD KEEPING AND REPORTING

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion or Concurrent Enrollment in BBK 50.
Transferability: CSU.
Description: A comprehensive course on payroll including record keeping, payroll accounting, federal and state reporting, laws governing payroll, and computerized payroll systems.

BBK 53.1 QUICKBOOKS LEVEL 1

1.5 Units/1 hour lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Training in the use of QuickBooks software for personal and business applications. Topics include information gathering, setting up accounts, payroll setup, working with lists, recording sales and purchases, inventory, tracking sales tax, banking procedures and financial reports.

BBK 53.2 QUICKBOOKS LEVEL 2

1.5 Units/1 hour lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Course Completion of BBK 53.1 and BBK 50.
Transferability: CSU.
Description: Advanced applications of QuickBooks accounting software for the office professional. Topics include setting up company books, preparing journal entries, creating reports, budgeting, advanced payroll features, tracking tax information, preparing estimates, job costing, maintaining data, solving problems and year end closing procedures.

BUSINESS GENERAL (BGN)

BGN 71 BUSINESS ENGLISH GRAMMAR

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course covers the finite points of English grammar usage preparing students for the professional

demands of analyzing and writing correct sentences; using correct grammar, punctuation, spelling, and vocabulary in business writing, formal reports, and marketing materials. Includes the use of standard reference sources and proofreader's marks for editing business-related sentences, paragraphs, and documents.

BGN 81 PRACTICAL BUSINESS MATH SKILLS

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course focuses on the development of basic workplace business math competencies and foundation skills in order to perform simple analysis to improve organizational performance, operations, and presentation of data in a managerial context.

BGN 100 PROFESSIONAL BUSINESS WRITING

1.5 Units/1.5 hours lecture. P/NP Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of BGN 71.
Description: This course covers professional business writing including digital messages, emails, memos, and letters. Topics include audience analysis, formatting, editing, proofreading techniques, and writing strategies.

BGN 101 TYPING

(Formerly BOT 50A) 1.5 Units/1 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Develop ability to type by touch using computerized typing software. Emphasis is placed on analyzing and enforcing proper keyboarding and ergonomic techniques with a focus on taking preventative measures to prevent cumulative trauma disorders. Speed and accuracy development emphasized, as well as proofreading.

BGN 102 TYPING-SKILL BUILDING

1.5 Units/1 hour lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Course Completion or Concurrent Enrollment in BGN 101 OR BGN 201.
Description: Using diagnostic and prescriptive keyboarding software and correct ergonomic techniques, students will increase their speed and accuracy. Proofreading skills are also emphasized.

BGN 110 EXPLORING BUSINESS CAREERS

(Formerly BOT 56B) 1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Development of a career or educational plan for obtaining necessary skills related to the changing role and opportunities of business professionals in the 21st century. Students will begin the development of a career portfolio to which documentation and resources will be added as they move through their educational program and careers.

BGN 111 SOFT SKILLS FOR BUSINESS

(Formerly BOT 56A) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Critical workforce issues including the evolution of the workplace environment; the worker's changing roles, responsibilities, and opportunities; and development of 21st century workplace skills such as ethics, critical thinking, problem solving, creativity, innovation, and individual responsibility. Throughout the course students will work in teams and examine and practice communication and soft skills.

BGN 112 MARKETING YOUR SKILLS

(Formerly BOT 59.3) 3 Units/3 hours lecture. Grade Only. Recommended: Course Completion of CS 60.11A and Course Completion of CS 61.11A.
Description: In this course students will continue to identify, develop, and reinforce workforce skills including critical soft skills demanded by employers, and create a written and electronic portfolio to include personal branding, resumes, cover letters, personal summaries and samples of work. The class also covers using social networking sites for employment marketing. Students will develop and practice interviewing skills.

BGN 155 INTRODUCTION TO BANKING

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Comprehensive introduction to the diversified services and operations of the banking industry; banking operations and services banks provide, including loans, deposit accounts and payment processing; electronic banking; financial planning; laws and regulations.

BGN 156 CREDIT AND LENDING ANALYSIS

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Fundamentals of credit and loan analysis; overview of financial statements; nature of credit and debt; credit and borrower risk analysis; cash flow analysis.

BGN 201 BASIC KEYBOARDING

(Formerly BOT 169.1) 0.5 Unit/1.5 hours laboratory. P/NP Only.
Description: Individualized instruction to type alphabetic letters, numbers, and symbol keys by touch.

BGN 203 10-KEY SKILLS

0.5 Unit/1.5 hours laboratory. Grade or P/NP.
Description: Individualized instruction in using the 10-key numeric keypad by touch. Students will achieve a minimum speed of 10,000 KSPH (keystrokes per hour) with at least 98 percent accuracy.

BGN 204 ELECTRONIC CALCULATOR

0.5 Unit/1.5 hours laboratory. Grade or P/NP.
Description: Training in the use of the electronic printing calculator.

BGN 205 BASIC FILING

(Formerly BOT 172) 0.5 Unit/1.5 hours laboratory. Grade or P/NP.
Description: American Records Management Association [ARMA] rules are used to present the basic indexing rules for names of individuals, business names, government agencies, other organizations, and special names. Specific exercises applying the indexing rules to alphabetic, subject, geographic, and numerical filing systems.

BUSINESS MANAGEMENT (BMG)

BMG 50 INTRODUCTION TO MANAGEMENT AND SUPERVISION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Principles, concepts, and practices of management: planning, organizing and controlling in organizations. Organizational dynamics of diversity, groups, communications, decision making, change, and ethics and social responsibility.

BMG 52 BUSINESS COMMUNICATION

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ENGL 1A. Recommended: Completion of SPCH 1A, BGN 71, CS 60.11A, CS 61.11A, and CS 62.11A.
Transferability: CSU.
C-ID: BUS 115
Description: Effective communication applied to business letters, memos, emails, proposals/reports, and presentations. Strategies for organizing, composing, and presenting information clearly and accurately while incorporating appropriate goodwill. Includes writing for the employment process.

BMG 53 ORAL COMMUNICATION IN ORGANIZATIONS

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
GE: *AA/AS area B*
Description: Develop speaking skills to effectively and confidently deliver oral presentations in organizational settings. In addition, analyze audiences, research topics, and prepare and deliver presentations.

BMG 55 FUNDAMENTALS OF FINANCIAL ANALYSIS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Introduction to financial concepts in order to interpret financial reports, including balance sheets, income statements and statements of cash flows. Evaluate financial data using key financial ratios and breakeven analysis. Calculate return on investment and variances to evaluate profit potential.

BMG 61 SKILLS FOR MANAGERS

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course provides knowledge, skills, and tools for students to refine their professional management effectiveness. Topics include roles set for managing others, getting started, self-management within the framework of time, writing goals and objectives, focusing on results, getting results, and managing effectively.

BMG 62.1 ONE-ON-ONE MANAGEMENT COMMUNICATION

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Examine communication models to understand the communication process. Incorporate techniques to create messages to clearly express ideas and provide feedback. Develop leadership skills to communicate effectively to solve problems and accomplish tasks.

BMG 62.4 MANAGING WORKGROUPS

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course will enable students to determine characteristics of effective team leadership and participation after analyzing stages of group development and group roles, and to examine strategies for creating, participating in, and leading high performance teams.

BMG 63.1 MOTIVATION AND EMPOWERMENT

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course provides the knowledge, skills, and tools for creating a motivational organizational environment. Topics include identifying individuals' motivational needs, assessing the organization's motivational status, and developing and applying motivational strategies.

BMG 63.4 MANAGERIAL LEADERSHIP

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course provides the knowledge, skills, and tools to increase management leadership effectiveness. Topics include successful leadership characteristics, situational leadership styles, and setting direction with vision, mission, and policies within the organization's culture.

BMG 66.1 EXCELLENCE IN ORGANIZATIONAL DECISION MAKING

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course provides the knowledge, skills, and tools to solve organizational problems, make effective decisions, and implement organizational change. Topics include selecting problems, using the rational decision-making process, selling the solution, and determining ones own decision-making style. The course provides the manager with the knowledge and the skills to create a work environment that is both proactive and rational.

BMG 66.4 PROJECT MANAGEMENT

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: An introduction to project management and the tools a project manager needs to be effective. Topics include initiating, planning, scheduling, implementing, controlling, evaluating, and managing a project team.

BMG 67.4 CONFLICT MANAGEMENT

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Explore mediation strategies as well as communication theory and techniques with the goal of conflict resolution. Examine contributing causes of conflict. Analyze the management mediation process and the community mediation process for resolving conflicts.

BMG 174 CROWDFUNDING FUNDAMENTALS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Provides a practical guide on how to research, plan and launch a crowdfunding campaign. Students will learn to translate a business plan into one or more projects that can be financed through crowdfunding. Social

media platforms such as Facebook, Twitter and LinkedIn will be used to build a group of followers to launch and then sustain the crowdfunding effort. Short video pitches describing the team, the need and rewards will be created so that students completing the class will be able to initiate their own campaigns.

BUSINESS MARKETING (BMK)

BMK 50 MARKETING

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Innovative, customer-centric strategies to successfully reach consumer and business markets. Focus on branding, positioning, promotions, social media, and digital communications with an emphasis on long-term, socially responsible and sustainable techniques.

BMK 51 PRINCIPLES OF SELLING

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Principles and methods of personal selling: preparation for selling, the selling process and introduction to sales management. Behavioral aspects of selling: sociological and psychological theories of consumer motivation, behavior and perception. Includes lectures, discussions, demonstrations and practice in sales presentations.

BMK 54 ADVERTISING, BRANDING, & DIGITAL MARKETING

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Applies the fundamental principles of brand and advertising development to the modern “attention economy” where new forms of media and consumer engagement are continually being invented and reinvented. Brand auditing, market research, media usage patterns, copywriting and brainstorming techniques are used to develop unified branding, advertising, and digital media marketing strategies relevant and motivating to current consumers. Culminates with a comprehensive final team project where campaign strategy, copy, design, media placement and social media campaigns will be created for student-selected products.

BMK 57 INTRODUCTION TO PUBLIC RELATIONS

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: The principles and practical applications of public relations within a business marketing setting including communications strategies to build strong relationships with an organization's customers and stockholders. Topics include communications management, integrated marketing communication, crisis management, and image management.

BMK 59 CONSUMER BEHAVIOR

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: The use of consumer data and the study of emerging cultural shifts in forward planning for marketing and business. Topics include the effects of evolving consumer activity and the influence of trends, fads, buzz, pop culture and lifestyle swings on business and consumer behavior.

BMK 60 RETAIL MERCHANDISING MANAGEMENT

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Survey of independent, chain and department store merchandising operations and management. Analysis and evaluations of store location and layout, human resources, buying, pricing, sales promotion, inventory planning and control, merchandising policies, and retail trends.

BMK 155 DIGITAL MARKETING TOOLS

1.5 Units/1.5 hours lecture. P/NP Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This survey course will introduce students to the major types of digital marketing tools and technologies currently in use. Students will learn when and how to apply these tools and technologies to achieve desired marketing results. As this is a rapidly evolving field, the specifics of tools and technologies will change to reflect current practices.

BUSINESS OFFICE TECHNOLOGY (BOT)

BOT 85.1 LEGAL PROFESSIONS

1 Unit/1 hour lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: A survey course introducing the field of law and its various occupations. Topics include: overview of legal professions; professional organizations; legal terminology; duties and responsibilities of personnel; review of the legal system and the court structure.

BOT 85.4 CIVIL LITIGATION PRACTICES AND PROCEDURES

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Course Completion of CS 60.11A or equivalent; Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course is intended for individuals interested in becoming legal secretaries or paralegals as well as individuals interested in learning the practices and procedures for commencing a civil lawsuit. Focuses on law office secretarial procedures and preparation of legal documents including without limitation; a complaint, summons, answer, and proof of service. Legal calendaring, trial court delay reduction requirements, local rules of court, service of process, and dismissal of a lawsuit will also be covered.

BOT 85.5 DISCOVERY PRACTICES AND PROCEDURES

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Course Completion of CS 60.11A or equivalent; Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course is intended for individuals interested in becoming legal secretaries or paralegals as well as individuals interested in learning about discovery, the most important component of a lawsuit. Focuses on law office secretarial procedures in discovery methods using interrogatories, production of documents, subpoenas, depositions; preparation, processing, and production of discovery documents and responses; and time frames and calendaring requirements.

BOT 99.1I ADMINISTRATIVE ASSISTANT WORK EXPERIENCE INTERNSHIP

(Formerly BOT 99I.1) 0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Prerequisite: Course Completion BGN 110, CS 60.11A, and CS 61.11A. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an interview, placement and verification of employment because intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Administrative Assistant Occupational Work Experience Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship assistance; and supervised employment of students that extends to the job site. Students will apply classroom learning to their internship as it relates to the students' educational or occupational goal. Students eligible for internships will have declared a major, have completed courses in their major, or have acquired a high level of skill in their discipline, and are ready for on-the-job experience in a paid position (75 hours/unit). Students will acquire new knowledge, skills, and abilities to prepare for a career in Administrative Assistant.
16 Units Total (WrxEx only)

BOT 99.2I BOOKKEEPER INTERNSHIP

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Prerequisite: Course Completion or Current Enrollment in BBK 51 and BGN 81 and BGN 110 and CS 60.11A. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an application, interview, placement and verification of employment because intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Bookkeeper Occupational Work Experience Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship guidance; and supervised employment. Students will apply classroom learning to related work experience in the field of Bookkeeping. Students eligible for internships will have declared a major, have completed courses in their major, or have acquired a high level of skill in their discipline, and are ready for on-the-job experience in a paid position. Students are expected to perform 75 hours of internship time for each unit of course credit. Students will acquire new knowledge, skills, and abilities to prepare for a career in the field of Bookkeeping.
16 Units Total (WrxEx only)

BOT 99.3I LEGAL OCCUPATIONAL WORK EXPERIENCE INTERNSHIP

(Formerly BOT 99I.3) 0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Prerequisite: Course Completion or Current Enrollment in BOT 85.5 and BOT 156 and BGN 110. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an application, interview, placement and verification of employment because intern position must be secured prior to enrollment.

Transferability: CSU.
Description: Legal Occupational Work Experience Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship placement; and supervised employment of students that extends to the job site classroom learning that relates to the students' educational or occupational goal. Students eligible for internships will have declared a major, have completed courses in their major, or have acquired a high level of skill in their discipline, and are ready for on-the-job experience in a paid position. Students are expected to perform 75 hours of internship time for each unit of course credit. Students will acquire new knowledge, skills, and abilities to prepare for a career in their chosen field.
16 Units Total (WrxEx only)

BOT 154 OFFICE PROCEDURES

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course simulates an office environment. Administrative and soft skills needed to function as a productive and valuable member of an office team are featured. Topics include managing resources, file and records management, telephone techniques, processing and mailing options, travel arrangements, and other administrative tasks. In addition, many facets of business etiquette are covered.

BOT 154.1 WRITING STRATEGIES

0.5 Unit/0.5 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Course for office professionals to develop memo and letter writing skills. Topics include audience analysis, formatting, editing, proofreading techniques, and strategies for writing.

BOT 156 LEGAL OFFICE PROCEDURES

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 AND Course Completion of CS 60.11A AND Course Completion of BGN 71.
Description: Training in law office procedures with emphasis on preparation of non-court documents such as wills, agreements, real estate and corporation papers, with an introduction to family law and criminal law. Course includes managing legal files, telephone techniques, processing mail, and other administrative tasks relative to a law firm. Confidentiality, legal ethics, and professionalism will be enforced throughout the course. Students will create sample client files and develop a legal procedures manual that can be used as a guide when working in a law office.

BOT 770 BUSINESS SKILLS LAB

0 Unit/5 hours by arrangement. Non-Credit Course.
Description: Supervised one-on-one instruction in all levels of BAD 1 through BAD 99, BBK 50 through BBK 99, BGN 50 through BGN 399, BMG 50 through BMG 99, BMK 50 through BMK 99, BOT 50 through BOT 399, HOSP 50 through HOSP 99, HR 50 through HR 99, RE 50 through RE 99, and supports students needing remediation of their basic computer skills.
Exempt From Repeat Provisions

CHEMISTRY (CHEM)

CHEM 1A GENERAL CHEMISTRY

5 Units/4 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of CHEM 42 AND Course Completion of MATH 154 or Course Completion of MATH 155 or higher (MATH); OR Course Completion of CHEM 42 AND two years of high school algebra or equivalent Students who think they may be ready for CHEM 1A or CHEM 4A without completing CHEM 42 should take the Chemistry Diagnostic Test AND complete and return the Chemistry Diagnostic Review form to the Student Success and Assessment Services Office. After Chemistry Department's review and approval, the Admission and Records Office will lift prerequisite block and notify student through the portal. Recommended: Course Completion of ENGL 1A.
Transferability: CSU;UC.
C-ID: CHEM 110;CHEM 120S Series
GE: *AA/AS area C;CSU areas B1,B3;IGETC areas 5A,5C*
Description: General principles of chemistry, including atomic theory, bonding, stoichiometry, kinetic molecular theory of gases, properties of mixtures, the periodic table, and thermochemistry. First semester of a one year program of general chemistry.

CHEM 1B GENERAL CHEMISTRY

5 Units/3 hours lecture, 6 hours laboratory. Grade Only. Prerequisite: Chemistry 1A or equivalent with a grade of "C" or better.
Transferability: CSU;UC.
C-ID: CHEM 120S Series
GE: *AA/AS area C;CSU areas B1,B3;IGETC areas 5A,5C*
Description: A continuation of Chemistry 1A. Topics include chemical kinetics, thermodynamics, chemical equilibrium, acids and bases, nuclear chemistry, electrochemistry, coordination compounds and bonding, and selected topics in descriptive chemistry. Laboratory emphasizes methods of analytical chemistry and quantitative work.

CHEM 7 INTRODUCTION TO STEM CAREERS

1 Unit/1 hour lecture. Grade or P/NP. Prerequisite: Course Completion of BIO 10 OR CHEM 42 OR ENGR 10 OR MATH 58 OR MATH 25; OR MATH 27 or higher (MATH). Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: This course covers the methods for development of career pathways in fields such as science, technology, engineering, and mathematics (STEM). Students will learn to use STEM related job-search tools, identify key job skills, develop a plan for acquiring those skills, and how to use science communication skills related to a particular career or area of research in which the student has an interest.

CHEM 8 INTRODUCTORY ORGANIC CHEMISTRY

5 Units/4 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of CHEM 1A OR Course Completion of CHEM 42. Recommended: Course Completion of ENGL 1ACourse Completion of ENGL 1A.
Transferability: CSU;UC.
GE: *CSU areas B1,B3;IGETC areas 5A,5C*
Description: An introduction to the principles, nomenclature, structure, and reaction mechanisms of organic chemistry.

CHEM 12A ORGANIC CHEMISTRY

5 Units/3 hours lecture, 6 hours laboratory. Grade Only. Prerequisite: Course Completion of CHEM 1B OR Course Completion of CHEM 4B.
Transferability: CSU;UC.
C-ID: CHEM 150;CHEM 160S Series
GE: *CSU areas B1,B3;IGETC areas 5A,5C*
Description: For students majoring in chemistry, biochemistry, chemical engineering, or a closely related field such as molecular and cell biology. The first semester of an intensive one-year program based upon modern theoretical concepts of organic chemistry. All aspects of fundamental organic chemistry are studied, including nomenclature, chemical and physical properties, reactions and synthesis. The study includes theoretical aspects, reaction mechanisms, and multistep synthesis. Students transferring to a four-year college or university are expected to complete this sequence prior to their junior year.

CHEM 12B ORGANIC CHEMISTRY

5 Units/3 hours lecture, 6 hours laboratory. Grade Only. Prerequisite: Course Completion of CHEM 12A.
Transferability: CSU;UC.
C-ID: CHEM 160S Series
GE: *CSU areas B1,B3;IGETC areas 5A,5C*
Description: The second semester of an intensive one-year program based upon modern theoretical concepts of organic chemistry. All aspects of fundamental organic chemistry are studied, including nomenclature, chemical and physical properties, reactions and synthesis. The study includes theoretical aspects, reaction mechanisms, and multistep synthesis. Students transferring from a four year college or university are expected to complete this sequence prior to their junior year.

CHEM 42 INTRODUCTORY GENERAL CHEMISTRY

4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of MATH 154 or MATH 155 or higher (MATH) or two years of high school algebra or equivalent. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU areas B1,B3;IGETC areas 5A,5C*
Description: A basic introduction to fundamental laws and principles of the composition of matter, physical and chemical changes, atomic and molecular structure, chemical equilibria, intermolecular forces, solutions, and qualitative and quantitative theory and techniques. This course is a pre-requisite for Chemistry 1A.

CHEM 49 INDEPENDENT STUDY IN CHEMISTRY

1-3 Units/Up to 9 hours by arrangement. Grade Only. Prerequisite: Course Completion of CHEM 1B OR CHEM 4B. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator. Preliminary application (written description of project objectives and methods, selection of faculty supervisor, list of required equipment and supplies) must be submitted to department chairperson one semester in advance.
Transferability: CSU;UC.
Description: Literature, laboratory, or field research in chemistry, by arrangement, to provide for independent study. UC determines credit AFTER transfer; not counted for admission. (See a counselor for details.)

CHEM 60 GENERAL, ORGANIC AND BIOLOGICAL CHEMISTRY

5 Units/4 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for MATH 150B or equivalent AND eligibility for ENGL 100 or ESL 100.
Transferability: CSU.

GE: *AA/AS area C;CSU areas B1,B3*
Description: Basic concepts of general, organic and biological chemistry. Satisfies the requirements of nursing and related majors that require one semester of chemistry.

CHEM 100 BASIC CHEMISTRY SKILLS

2 Units/2 hours lecture. Grade or P/NP.
Description: An introductory course designed to familiarize the student with the basic concepts of chemistry while developing necessary skills for success in general chemistry and chemistry for the allied health sciences. Basic mathematical operations, the metric system, and the scientific method as it applies to chemistry are also covered.

CHILD DEVELOPMENT (CHLD)

CHLD 10 CHILD GROWTH AND DEVELOPMENT

(Formerly CHILD 10) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: CDEV 100
GE: *AA/AS area D;CSU areas D,E;IGETC area 4*
Description: This introductory course examines the major developmental milestones in the areas of biosocial, psychosocial, and cognitive development for children, both typical and atypical, from conception through adolescence. There will be an emphasis on the interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences, and analyze characteristics of development at various stages. Required for Child Development Permits.

CHLD 51 PRINCIPLES AND PRACTICES OF EARLY CHILDHOOD EDUCATION

(Formerly CHILD 51) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
C-ID: ECE 120
Description: This survey course of the early childhood education field provides an analysis of historical and contemporary models. Topics include an examination of developmentally and culturally appropriate principles as they apply to children's development, program components, teacher/child/family relationships, professional ethics and career development. The student is required to observe and participate for 18 hours in a licensed early childhood program. The course is appropriate for students wishing to work with children from birth through age eight in a variety of childcare and educational programs.

CHLD 53A INTRODUCTION TO CHILDREN WITH SPECIAL NEEDS

(Formerly CHLD 53) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of CHLD 10. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of CHLD 90.2.
Transferability: CSU.
Description: This course provides an introduction to a variety of diagnosed disabilities and other special needs conditions that cause children, birth through age eight, to show atypical development. Laws and service provisions,

social and educational implications, culture and family dynamics in the context of the larger community will be discussed. This course can be combined with CHLD 53B to fulfill the requirements for specialization units on the Child Development Permit Matrix.

CHLD 53B SUPPORTING CHILDREN W/ SPECIAL NEEDS IN EARLY CHILDHOOD PRGM

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of CHLD 53A (or CHLD 53). Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of CHLD 90.2.
Transferability: CSU.
Description: This course presents effective intervention strategies for working with children with special needs in early childhood education programs. The focus will be on young children, birth through age eight, with disabilities, delays or special health care needs. Course topics will include adaptations and accommodations, Individual Education Plans, inclusive practices, and working with additional support professionals in the classroom. Best practices and developmentally appropriate curriculum strategies will be the focus. This course can be combined with CHLD 53A to fulfill the requirements for specialization units on the Child Development Permit Matrix.

CHLD 55.2 EXPLORING SCIENCE AND MATH WITH YOUNG CHILDREN

(Formerly CHILD 55.2) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 AND Course Completion of CHLD 10 and CHLD 90.4; OR Course Completion of CHLD 110.1, CHLD 110.2 and CHLD 90.4.
Transferability: CSU.
Description: This course familiarizes students with constructivist theories of cognitive development and their application in the early childhood classroom. Students will actively explore and develop math and science concepts suitable for young children. They will learn to implement age-appropriate curriculum for children aged 0-8.

CHLD 55.5 FOUNDATIONS OF LANGUAGE AND LITERACY

(Formerly CHILD 55.5) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of CHLD 10.
Transferability: CSU.
Description: This course provides an overview of current research and pedagogy related to first and second language acquisition and early literacy of children from birth through age eight. Students will observe and document children's language and literacy in classroom settings, create literacy activity plans, compare tools for evaluating language development, and analyze strategies for scaffolding language and literacy.

CHLD 55.6 ART FOR THE YOUNG CHILD

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A and Course Completion or Concurrent Enrollment in CHLD 10 OR CHLD 110.1 OR CHLD 110.2.
Transferability: CSU.
Description: This course will introduce students to the stages of children's artistic development, birth through age eight. Students will explore hands-on activities for use in the early childhood classroom and experience a variety of age-appropriate art media. Classroom environment and materials, art education philosophies and creative development will be addressed.

CHLD 55.7 MUSIC AND MOVEMENT FOR CHILDREN

3 Units/3 hours lecture. Grade or P/NP. Recommended: Course completion of CHLD 90.4 and Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: An introduction to materials and methods, including songs, movement, finger plays, dance and rhythm, that comprise a developmentally appropriate music curriculum for young children. Development of creativity and music education for children from birth through age eight will be addressed. The role of music and movement as part of an integrated curriculum will also be explored.

CHLD 66 EARLY CHILDHOOD CARE AND EDUCATION PRACTICUM

6 Units/3 hours lecture, 9 hours laboratory. Grade Only. Prerequisite: Course Completion with a grade of C or better of CHLD 10, CHLD 51 and CHLD 90.4. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Health or Safety: "All personnel, including the licensee, administrator and volunteers, shall be in good health and shall be physically and mentally capable of performing assigned tasks. ... good physical health shall be verified by a health screening, including a test for tuberculosis, performed by or under the supervision of a physician not more than one year prior to or seven days after employment or licensure. (22 Ca. Code of Regs. 101216(g). California Health and Safety Code Section 1596.7995.: (a) (1) Commencing September 1, 2016, a person shall not be employed or volunteer at a day care center if he or she has not been immunized against influenza, pertussis, and measles. Each employee and volunteer shall receive an influenza vaccination between August 1 and December 1 of each year.
Transferability: CSU.
C-ID: ECE 210
Description: Students will participate in a supervised field experience with young children at Santa Rosa Junior College Children's Center or a designated off-campus Mentor Program site. Under the supervision of the course instructor and mentor teachers, students will apply previous understanding of developmental theory to classroom practice. This course focuses on identifying and developing skills and behaviors essential for effective teaching. These include: building healthy, caring relationships with and between young children; classroom organization and management; curriculum development and implementation; professionalism and ethics; utilizing anecdotal observations and teaching as a member of a team.

CHLD 66.1 ADVANCED ECE PRACTICUM: CURRICULUM AND ASSESSMENT

6 Units/18 hours laboratory. Grade Only. Prerequisite: Course Completion of CHLD 66. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Students enrolled shall have a clear TB test and a health-screening report that indicates the person's physical qualifications to perform the duties and any health condition that would create a hazard to the children or other personnel. (22Ca. Code of Regs. 101216(g)
Transferability: CSU.
Description: Advanced child development students will participate in a supervised student teaching practicum at the Santa Rosa Junior College Children's Center. The course is designed for developing proficiency in the following areas as defined in the California Early Childhood Educator Competencies: child development and learning; relationships, interactions, and guidance; learning environments and curriculum; and observation, screening, and assessment.

CHLD 66.2 ADVANCED ECE PRACTICUM: PROGRAMS, FAMILIES, AND COMMUNITY

6 Units/18 hours by arrangement. Grade Only. Prerequisite: Course Completion of CHLD 66. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Health or Safety "Students enrolled shall have a clear TB test and a health-screening report that indicates the person's physical qualifications to perform the duties and any health condition that would create a hazard to the children or other personnel. (22Ca. Code of Regs. 101216(g)."

Transferability: CSU.

Description: Advanced child development students will participate in a supervised student teaching practicum at the Santa Rosa Junior College Children's Center. The course is designed for developing proficiency in the following areas as defined in the California Early Childhood Educator Competencies: child development and learning; relationships, interactions, and guidance; learning environments and curriculum; and observation, screening, and assessment.

CHLD 68 WORKING WITH CHILDREN AND FAMILIES IN A DIVERSE SOCIETY

(Formerly CHILD 68) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Course Completion of CHLD 10; OR Course Completion of CHLD 110.1 and CHLD 110.2; AND Eligibility for ENGL 1A.

Transferability: CSU.

C-ID: ECE 230

GE: *AA/AS areas D,G;CSU area D*

Description: This course is designed to prepare students and professionals who will be working with young children to negotiate the cultural and sociopolitical contexts of a diverse society. Students will examine the contexts of race, culture, gender and socio-economic class as they relate to child development and respectful interactions with families in an educational or social service environment. The focus will be on transformative education that encourages self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling, and creating pluralistic environments for children and families.

CHLD 79.1 ADMINISTRATION OF EARLY CHILDHOOD EDUCATION PROGRAMS

(Formerly CHILD 79.1) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CHLD 10 and Course Completion of CHLD 90.1. Recommended: Course Completion of CHLD 51 and CHLD 90.4; Eligibility for ENGL1A; Prior work experience in a licensed early childhood education program.

Transferability: CSU.

Description: This course addresses the administration of early childhood programs including program types, fiscal and personnel management, regulations, laws, program development, analysis of quality criteria and design of policies and procedures. Students will examine administrative tools, philosophies and techniques needed to organize, open and operate inclusive, quality early care and education programs.

CHLD 79.2 LEADERSHIP & PERSONNEL SKILLS FOR EARLY CHILD. ADMINISTRATOR

(Formerly CHILD 79.2) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CHLD 10 and Course Completion of CHLD 90.1. Recommended: Eligibility for ENGL 1A or equivalent AND Course Completion of CHLD 51 AND CHLD 90.4.

Transferability: CSU.

Description: This course will present effective strategies for personnel management, leadership and parent

engagement in early care and education settings. Topics include legal and ethical responsibilities, supervision techniques, professional development and reflective practices for a diverse and inclusive early care and education program.

CHLD 79.4 ADULT SUPERVISION AND MENTORING

(Formerly CHILD 79.4) 2 Units/2 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CHLD 10 and Course Completion of CHLD 90.1. Recommended: Eligibility for ENGL 1A or equivalent; Course Completion of CHLD 51 and Course Completion of CHLD 90.4; possession of a Child Development Teacher Permit or equivalent.
Transferability: CSU.
Description: This course explores methods of supervision, mentoring and community building for experienced teachers and directors of staff and students in the field of early childhood. Upon successful completion of this course, participants may apply for the California Early Childhood Mentor Teacher Program, if they have also met other requirements. This course also meets the requirements on the Child Development Permit Matrix for adult supervision.

CHLD 90.1 CHILD, FAMILY, COMMUNITY INTERRELATIONSHIPS

(Formerly CHILD 90.1) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for English 100 or ESL 100.
Transferability: CSU.
C-ID: CDEV 110
GE: *AA/AS area D;CSU area E*
Description: This course explores the diversity of family systems, sociocultural factors affecting the child's development and the socializing influences of community. This course meets the educational requirements for the Child Development Permit issued by the State of California Commission on Teacher Credentialing and child care licensing requirements.

CHLD 90.2 OBSERVATION AND ASSESSMENT OF YOUNG CHILDREN

3 Units/3 hours lecture. Grade Only. Prerequisite: Completion of CHLD 10 and CHLD 51; OR Completion of CHLD 110.1, 110.2 and CHLD 51. Recommended: Eligibility for ENGL 1A or equivalent; Current or previous work with children in a group care setting.
Transferability: CSU.
C-ID: ECE 200
Description: This course focuses on the appropriate use of observation and assessment methods to document and promote young children's growth and development. Recording strategies, rating systems, portfolios and multiple assessment tools are introduced and utilized to design developmentally appropriate curriculum to optimally support children and families.

CHLD 90.3 HEALTH, SAFETY AND NUTRITION FOR THE YOUNG CHILD

(Formerly CHILD 90.3) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
C-ID: ECE 220
Description: This course is designed to provide knowledge of health, safety and nutritional issues to child care providers in group settings for young children. Students will learn to advocate for and implement procedures to avoid health problems and to respond as they occur. The course will include an introduction to the laws, regulations, standards and policies. It will focus on integrating the concepts into everyday planning and program development for all children.

CHLD 90.4 INTRODUCTION TO CURRICULUM

(Formerly CHILD 90.4) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of CHLD 10 and CHLD 51; OR Course Completion of CHLD 110.1, CHLD 110.2 and CHLD 51. Recommended: Eligibility for ENGL 100 or ESL 100 and presently working with children.

Transferability: CSU.

C-ID: ECE 130

Description: This course presents an overview of knowledge and skills related to planning and implementing developmentally and culturally appropriate curriculum and environments for young children ages 0 to 8. It examines the teacher's role in promoting practices that support learning and development with an emphasis on the essential role of play. Students will study the overview of content areas including but not limited to: language and literacy, social and emotional learning, sensory learning, art and creativity, math and science, and using the environment as a foundation for curriculum. California Preschool Learning Foundations and Framework are incorporated. This course is required for the Child Development Teacher Certificate and the Child Development Major (AA).

CHLD 95 DEVELOPING SOCIAL COMPETENCE IN THE EARLY CHILDHOOD YEARS

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of CHLD 10 and CHLD 90.1.

Transferability: CSU.

Description: This course will focus on healthy social and emotional development of young children as the foundation for early learning. This course is designed to provide early childhood educators, parents, and others with the skills and information necessary for fostering children's social competence in the early childhood years. Students will acquire strategies to promote children's social and emotional development and use methodology to address challenging behaviors and mental health needs.

CHLD 96 WORKING THROUGH STRESS AND LOSS WITH CHILDREN AND FAMILIES

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for English 100 or ESL 100.

Transferability: CSU.

Description: This course focuses on family stress and the effects for children and their families. It is designed to enhance the ability of parents, childcare providers, teachers, and other professionals to understand and support children and their families through difficult challenges and transitions. Topics include: fostering resilience, adoption and foster care; variations in family structure; incarceration, separation, divorce, re-marriage and step-parenting; illness (physical and mental) and death; child maltreatment, exposure to domestic violence and substance abuse; gender identity and sexuality; bullying, bias and discrimination; children with special needs.

CHLD 110.1 DEVELOPMENTAL TRENDS OF CHILDREN UNDER 3

(Formerly CHILD110.1) 1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.

Description: Growth and development (physical, cognitive, social and emotional) of children from prenatal period to 36 months of age. Emphasis on practical applications and the adult role in supporting optimal growth in a variety of contexts. Child observations are required. (Grade or P/NP)

CHLD 110.2 DEVELOPMENTAL TRENDS IN THE CHILD AGE 3-5 YEARS

(Formerly CHILD110.2) 1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Growth and development (physical, cognitive, psychosocial) of children ages 3 - 5 years old. Emphasis on practical application and the adult role in supporting optimal growth in a variety of contexts. Child observations are required.

CHLD 111A GROUP CARE FOR CHILDREN UNDER THREE

(Formerly CHILD 111A) 3 Units/3 hours lecture. Grade or P/NP.
Description: Students will learn how responsive, relationship-based care impacts curriculum in infant-toddler group settings. Students will examine essential policies, principles, and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months. This course includes how to choose materials, arrange environments, and create curriculum to meet each child's individual and family needs. Elements of this class are based on the Program for Infant Toddler Care.

CHLD 150 EXPLORING THE NATURAL WORLD WITH YOUNG CHILDREN

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course will focus on outdoor education for young children, using local resources to develop teachers' skills at facilitating learning and discovery in natural environments. Class will include field trips to local nature preserves.

CHLD 160.1 BEGINNING EARLY CHILDHOOD PRACTICUM

(Formerly CHLD 60.1) 1 Unit/3 hours laboratory. Grade Only. Prerequisite: Course Completion of CHLD 10. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Health or Safety : Students enrolling in Child 160.1 must have a clear TB test and a health screening report [as per CA Title 22 Section 101216(g)], plus any immunizations required by Community Care Licensing for volunteers in a Child Care center.
Description: This course is designed to give students an initial, practical experience with young children in an early childhood classroom. Students will have the opportunity to explore the teacher’s role through observation, interactions with children and staff, and participation in classroom activities. Emphasis for this course will be on child observation and teacher-child interactions.

CHLD 185.1 CREATIVE INDOOR ENVIRONMENTS FOR YOUNG CHILDREN

(Formerly CHLD 85.1) 1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Description: This course examines the creation of appropriate and creative indoor learning environments for programs serving infants, toddlers and preschool-age children, and transitional kindergarten classrooms. Students will review techniques and strategies for the design of environments that meet the developmental needs of young children. Principles of planning, assessment, and design for home, center based and school environments will be explored and applied.

CHLD 185.2 CREATIVE OUTDOOR ENVIRONMENTS FOR YOUNG CHILDREN

(Formerly CHLD 85.2) 1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Description: This course examines appropriate and creative outdoor learning environments for young children, infants through school-age. Planning and assessment methods for designing center, Family Child Care, and early elementary environments will be explored and applied. Environmental factors that enhance learning and development will be a focus.

CHLD 185.3 GUIDANCE & DISCIPLINE TECHNIQUES-PRESCHOOL & EARLY PRIMARY

(Formerly CHLD 85.3) 1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100; and Course completion of CHLD 10.

Description: This course explores positive, age-appropriate child guidance and discipline approaches based on contemporary research and child development theory for teachers working with children ages 3-6. Students review guidance techniques and explore strategies that effectively support the child in managing his/her behavior. Topics include principles of effective communication, child development and behavior, appropriate limits and rules, and problem solving and consequences

CHLD 186 SPANISH LANGUAGE ARTS FOR YOUNG CHILDREN

3 Units/3 hours lecture. Grade or P/NP. Recommended: Completion of CHLD 10; OR CHLD 110.1 and CHLD 110.2.

Description: This course provides language arts activities in Spanish for students preparing for occupations in early childhood settings. Music, movement, and literature for children will be explored as a context for learning to effectively communicate with and teach young Spanish-speaking children. This class is taught bilingually in English and Spanish.

CHLD 217.1 CONSTRUCTIVE PLAY

1 Unit/1 hour lecture. Grade or P/NP.

Description: This course offers an overview of the role of play in supporting cognitive, physical, language, social and emotional development in young children. Observation and planning methods will be explored and analyzed. The use of innovative, non-standard, materials for constructive play will be explored.

CHLD 217.2 DRAMATIC PLAY AND GAMES WITH RULES

1 Unit/1 hour lecture. Grade or P/NP.

Description: This course explores theories about the play of young children and how adults support play as children develop. Students will learn to observe and identify elements of dramatic play and games with rules and the significance of this play at different developmental stages. Strategies and methods for supporting play will be investigated.

CHLD 220 EFFECTIVE GUIDANCE AND DISCIPLINE

(Formerly CHILD 220) 2 Units/2 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.

Description: This course explores practical application of effective discipline tools for guiding the behavior of children from birth through adolescence in family and group settings.

CHLD 711 PRE-SERVICE FOSTER PARENT TRAINING

0 Unit/1.5 hours lecture. Non-Credit Course.

Description: Course is required for Sonoma County residents interested in becoming foster or adoptive parents and is recommended for kinship or non-relative families who are providing homes for foster children. Topics include an overview of the child protective services and the court system, working with children who have been traumatized, building positive interactions with birth parents, sharing information with social workers and parents, and helping children return home or move to another placement.

Exempt From Repeat Provisions

CHLD 712 BEGINNING INDEPENDENT LIVING SKILLS, PART I

0 Unit/1.5 hours lecture. Non-Credit Course.
Description: Introduction to Independent Living Planning with a focus on daily living skills, educational goal setting and planning. Includes in-class completion of college application and registration materials, role-playing conflict resolution and problem solving, discussion of personal rights and responsibility issues, gathering of educational documents, identifying deficits in individual educational records, and developing personal and educational goals.
Exempt From Repeat Provisions

CHLD 713 ADVANCED INDEPENDENT LIVING SKILLS, PART I

0 Unit/1.5 hours lecture. Non-Credit Course.
Description: Introduction to Independent Living Skills with a focus on vocational goal setting, planning and financial literacy. Includes introduction to community and college resources such as financial aid, EOPS, CalWorks, tutorial and placement testing services, counseling, health services, and housing information. Students will practice checkbook balancing, tax preparation and budgeting, and develop job search and interviewing skills.
Exempt From Repeat Provisions

CHLD 714 BEGINNING INDEPENDENT LIVING SKILLS PART II

0 Unit/1.5 hours lecture. Non-Credit Course.
Description: Beginning Independent Living Skills Part II course is for Foster-Kinship youth that focuses in more depth on daily living, problem solving skills, and educational goal setting and planning. Includes in-class registration and completion of BOG [Board of Governor] fee waivers, role playing conflict resolution and problem solving, using examples provided by students, discussions of personal rights and responsibilities as an adult, and developing personal and educational action plans.
Exempt From Repeat Provisions

CHLD 715 ADVANCED INDEPENDENT LIVING SKILLS PART II

0 Unit/1.5 hours lecture. Non-Credit Course.
Description: Advanced Independent Living Skills focuses on vocational goal setting and financial literacy in more depth. Includes researching community and college resources such as financial aid, EOPS (Economic Opportunity Program Service), CalWorks, tutorial and placement testing services, counseling, health and housing information services. Students will visit these resources in small groups and report back to the class. Students will practice checkbook balancing, prepare federal and state income tax forms, identify safe financial practices to avoid bad credit or identity theft, and practice job searches and interviewing skills.
Exempt From Repeat Provisions

CHINESE (CHIN)

CHIN 1 ELEMENTARY CHINESE - PART 1

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 6A*

Description: Introduction to elementary traditional Mandarin Chinese grammar and development of all language skills (listening, speaking, reading, and writing) needed to effectively communicate using Chinese cultural patterns and conventions.

CHIN 2 ELEMENTARY CHINESE - PART 2

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Course Completion of CHIN 1 (or CHIN 51). Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;IGETC area 6A*
Description: Continuation of elementary Mandarin Chinese grammar and further development of appropriate language skills required for communication in social, academic, and work-related situations.

CIVIL & SURVEYING TECHNOLOGY (CEST)

CEST 51 CIVIL DRAFTING TECHNOLOGY

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Course Completion or Concurrent Enrollment in SURV 60.
Transferability: CSU.
Description: Theory and practice of civil engineering drafting and mapping: An introduction to basic manual drafting skills, computer-aided drafting and design (CADD), and the production of civil engineering, surveying and land development plans, plats, maps and drawings utilizing AutoCAD Civil 3D software. Topics include linework, lettering skills, geometric constructions, drawing perspectives and types, software organization, commands and tools, symbols, dimensioning, annotation, mapping scales and output types all in the context of civil engineering and surveying project deliverables.

CEST 63 SUBDIVISION PLANNING

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of CEST 51.
Transferability: CSU.
Description: Purpose and objectives of subdivision regulations procedures with emphasis on preparation of tentative and final subdivision maps, development of improvement plans and construction and surveying techniques.

CEST 64 PUBLIC WORKS INSPECTION AND TESTING

3 Units/3 hours lecture. Grade Only.
Transferability: CSU.
Description: Instruction on specific inspection and testing techniques used in public works projects. Topics include identifying duties, responsibilities, policies, procedures and methods for inspection and testing performed for cities, counties, and public agencies in California. Contracts, specifications and plans will be discussed. Responsibilities of the contractor, the engineer, the inspector and the owner will be included. Prime consideration will be given to developing inspection records, identifying duties and preparing job diary techniques.

CEST 65 PUBLIC WORKS PLANS AND ESTIMATING

3 Units/3 hours lecture. Grade Only.
Transferability: CSU.
Description: Reading and interpreting plans, and estimating time, material, labor and equipment needed for public works projects. Concepts include quantity take-offs, construction layout, rehabilitation, maintenance, inspection and testing with material cost estimating of public works improvements. Proper use of basic survey methods, symbols, mathematical conversions, determination of slope, grade, location and quantities are covered.

CEST 81 CIVIL ENGINEERING DESIGN/ DRAFTING

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Course Completion of CEST 85.
Transferability: CSU.
Description: Computations, design and CAD drafting applied to engineering drawings of site and grading plans, underground utilities, highways, retaining walls and similar concrete structures. Includes use of standard detail sheets.

CEST 85 CADD FOR CIVIL, SURVEYING AND LAND DEVELOPMENT

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of CEST 51.
Transferability: CSU.
Description: Computer-aided Drafting and Design (CADD) for civil engineering, surveying and land development technicians. Industry standard civil engineering software program will be utilized in this course. Areas covered include input of surveying data for boundary and topography. Creation of a digital terrain model, roadway alignments, earthwork, grading plan, plan view, profile view and cross section drawings as they relate to the civil engineering, surveying and land development profession.

CEST 98 INDEPENDENT STUDY IN CIVIL AND SURVEYING TECHNOLOGY

1-3 Units/Up to 9 hours by arrangement. Grade Only.
Transferability: CSU.
Description: Independent study on a chosen area of civil engineering, surveying or geospatial technology through independent study and research.

CEST 99I CIVIL ENGINEERING TECH OCCUPATIONAL WORK EXPERIENCE INTERN

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an interview, placement and verification of employment because intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Civil Engineering Occupational Work Experience Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship placement; and supervised employment of students that extends to the job site classroom learning that relates to the students' educational or occupational goal in Civil Engineering. Students eligible for internships will have declared a major, have completed courses in their major, or have acquired a high level of skill in Civil Engineering, and are ready for on-the-job experience in a paid position. Students will acquire new knowledge, skills, and abilities to prepare for a career in their chosen field of Civil Engineering.
16 Units Total (WrxEx only)

CEST 192 NON-TECHNICAL SKILLS FOR THE CIVIL ENGINEERING TECHNICIAN

1.5 Units/1.5 hours lecture. Grade Only.
Description: An introduction to non-technical skills used by civil engineering and surveying technicians. The course will concentrate on developing: an understanding of one's personal profile; emotional and social intelligences; group collaboration skills; project management skills; individual & group verbal/listening and written communication skillls; and job search skills. Students will research technician-level careers in civil engineering and surveying technology.

COLLEGE SKILLS (CSKLS)

CSKLS 312 WRITING SKILLS DEVELOPMENT

(Formerly CSKL 306) 3.5 Units/3 hours lecture, 2 hours by arrangement. Grade or P/NP.
Description: Development of writing skills and fluency necessary for academic classes and the workplace. Course covers basic sentence structure, punctuation, grammar, paragraphing, narrative composition, and workplace communication.

CSKLS 312.1 SENTENCE AND PARAGRAPH DEVELOPMENT

(Formerly CSKL 341.1) 1 Unit/1 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: This course covers the basic grammatical construction and punctuation of a variety of sentence types and includes methods for correcting fragment sentences and run-ons. Students will apply concepts to short written compositions.

CSKLS312.2 PUNCTUATION RULES

(Formerly CSKL 341.2) 1 Unit/1 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: This course covers the basic punctuation rules for commas, semicolons, apostrophes, and quotations. Students will incorporate the rules in short written compositions.

CSKLS312.3 WRITING STYLE AND ORGANIZATION

(Formerly CSKL 341.3) 1.5 Units/1.5 hours lecture for 6 weeks. Grade or P/NP.
Description: This course covers the basic grammar, style, and organization needed for clear sentences and coherent paragraphs. Students will apply skills to short written compositions.

CSKLS 313 FOUNDATIONS OF COLLEGE READING AND WRITING

(Formerly CSKL 350E) 7 Units/6 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Completion of CSKLS 312 or CSKLS 318 or higher (V8); or appropriate placement based on AB705 mandates.
Description: This course provides instruction in reading and writing skills and strategies in preparation for the next course of the English Pathway and other college courses at that level.

CSKLS 334 HOW TO TAKE AN ONLINE CLASS

(Formerly CSKL 360) 0.5 Unit/1.5 hours by arrangement. Grade or P/NP.
Description: Introduces the basic knowledge and skills needed to take an online class. Course includes computer operations and terminology, online class components, email applications, time management, and ways to communicate online with students and instructors. Students must participate in a one-hour face-to-face orientation, usually the first day of class, or show evidence that they have viewed the available video orientation prior to beginning coursework.

CSKLS 361 FRACTION SKILLS

0.5 Unit/1.5 hours laboratory. P/NP Only.
Description: This arithmetic course is designed to prepare students for success in future courses and the workplace. Skill areas to be covered include addition, subtraction, multiplication, division of fractions and mixed numbers, and conversions between fractions and decimals. Computational skills will be applied to word-problem solving. All work will be completed in a lab setting.

CSKLS 362 PROPORTIONS AND PERCENT SKILLS

(Formerly CSKL 300.3) 0.5 Unit/1.5 hours laboratory. P/NP Only.
Description: This course is designed to prepare students for success in future courses and the workplace. Students will learn techniques for converting between percentages, fractions and decimals. Students will solve word problems involving proportions. All work will be completed in a lab setting.

CSKLS 363 PRE-ALGEBRA SKILLS

(Formerly CSKL 300.4) 0.5 Unit/1.5 hours laboratory. P/NP Only.
Description: This pre-algebra course is designed to prepare students for success in future courses and the workplace. Skill areas to be covered include: addition, subtraction, multiplication, and division of signed numbers, exponents, simplifying and evaluating algebraic expressions, and solving basic algebraic equations. Equation solving skills will be applied to word problems. All work will be completed in a lab setting.

CSKLS 364 BASIC GEOMETRY SKILLS

(Formerly CSKL 300.5) 0.5 Unit/1.5 hours laboratory. P/NP Only.
Description: This basic geometry course is designed to prepare students for success in future courses and the workplace. Skill areas to be covered include solving for measures of angles and sides of basic geometric figures, as well as calculating perimeter, area and volume of various shapes by utilizing geometric formulas. The course will include an introduction to basic geometry vocabulary and applied problem solving. All work will be completed in a lab setting.

CSKLS367.1 BASIC MATH REVIEW 1

1 Unit/3 hours laboratory. P/NP Only.
Description: Guided independent study of topics ranging from basic arithmetic through pre-algebra using diagnostic-based software to allow students to progress from their current levels of competency. Students can build math skills in specific areas to prepare for desired math courses, occupational requirements, and math placement tests.

CSKLS367.2 BASIC MATH REVIEW 2

1 Unit/3 hours laboratory. P/NP Only. Recommended: Completion of CSKLS 367.1 or 367A or equivalent.
Description: Students will continue a guided independent study of topics ranging from advanced arithmetic through beginning algebra, as determined by instructor and diagnostic-based software. Student will build math skills in specific areas to prepare for desired math course, occupational requirements, and math placement tests.

CSKLS 368A GENERAL ARITHMETIC, PART 1

2 Units/2 hours lecture, 1 hour laboratory. Grade or P/NP.
Description: This course covers addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals. Includes application of arithmetic skills for problem-solving, interpretation of word problems, graphs, charts, and tables. Computer-assisted lab assignments reinforce lecture.

CSKLS 368B GENERAL ARITHMETIC, PART 2

2 Units/2 hours lecture, 1 hour laboratory. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in CSKLS 368A.
Description: This course covers ratio and proportion, percentage, and measurement. Includes application of arithmetic skills for problem-solving, as well as methods for interpreting word problems, graphs, charts, and tables. Computer-assisted lab assignments reinforce the lecture.

CSKLS 371 GENERAL ARITHMETIC

(Formerly CSKL 371) 3.5 Units/3 hours lecture, 2 hours laboratory. Grade or P/NP. Recommended: Basic arithmetic skills of addition, subtraction, multiplication and division of whole numbers.
Description: Addition, subtraction, multiplication and division operations as applied to whole numbers, fractions, decimal fractions, percentage, use of calculators, and measurement using English and metric systems. Problem-solving, estimation, using graphs, charts and tables. Regularly scheduled computer-assisted lab assignments to reinforce the lecture.

CSKLS 372 PRE-ALGEBRA

3.5 Units/3 hours lecture, 2 hours laboratory. Grade or P/NP. Prerequisite: Completion of CSKLS 371 or appropriate placement based on AB 705 mandates.
Description: This course covers operations with signed numbers, rules of powers and square roots applied to real numbers, using simplified, evaluated and scientific notation; geometric formulas to solve perimeters, areas, and volumes of figures; and algebraic expressions and linear equations. Emphasis is placed on critical thinking and demonstrating strategies as well as finding solutions. Regularly scheduled computer-assisted lab assignments reinforce or supplement lecture topics.

CSKLS 373 FOUNDATIONS OF MATHEMATICAL REASONING

3.5 Units/3 hours lecture, 2 hours laboratory. Grade or P/NP.
Description: This course is intended as an introduction for students in how to apply mathematical reasoning to their personal, professional, and academic lives. Students will learn how to do so via application problems that will require investigating new contexts, developing and proposing possible solutions, discussing and analyzing proposed plans, and making decisions. Topics include order of operations, real numbers, ratio and proportions, solving linear equations, dimensional analysis, geometric formulas, graphs/tables, and word problems. Regularly scheduled lab assignments reinforce or supplement lecture topics.

CSKLS 731 BASIC ACADEMIC SKILLS AND GED PREPARATION I

0 Unit/20 hours by arrangement. Non-Credit Course.
Description: Instruction and individualized learning plans are provided for preparation for the GED and other High School Equivalency tests. Course also provides academic skills development in preparation for credit Math and English Pathway classes; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. First level course covers math computation, reading comprehension, sentence and paragraph skills, and basic computer skills, as determined through initial assessment.
Exempt From Repeat Provisions

CSKLS 732 BASIC ACADEMIC SKILLS AND GED PREPARATION II

0 Unit/20 hours by arrangement. Non-Credit Course. Recommended: Concurrent Enrollment in CSKLS 731.
Description: Instruction and individualized learning plans are provided for second level of preparation for the GED and other High School Equivalency tests. Course also provides academic skills development in preparation for credit Math and English Pathway classes; Career Technical Education (CTE) classes; and Basic Academic Skills Certificate of Completion. Course covers pre-algebra math; reading skills applied to science, social studies, and other nonfiction selections; paragraph writing in response to reading selections; and basic word processing skills.
Exempt From Repeat Provisions

CSKLS 733 BASIC ACADEMIC SKILLS AND GED PREPARATION III

0 Unit/20 hours by arrangement. Non-Credit Course. Recommended: CSKLS 732.
Description: Instruction and individualized learning plans are provided for final level of preparation for the GED and other High School Equivalency tests. Course also provides academic skills development in preparation for: credit Math and English Pathway classes; and Career Technical Education (CTE) classes. Course covers beginning algebra and geometry; advanced reading skills applied to science, social studies, and nonfiction selections; short essay and extended-response writing analyzing original source readings; word processing skills appropriate for GED online tests. Successful completion of course leads to GED-level academic skills and Certificate of Completion in Basic Academic Skills.
Exempt From Repeat Provisions

CSKLS 760 CLASSROOM COMMUNICATION AND LEADERSHIP SKILLS TRAINING

(Formerly CSKL 760) 0 Unit/3 hours laboratory. Non-Credit Course.
Description: Through this course, students will systematically increase their awareness, responsibility, self-confidence, and communication skills necessary to become effective leaders in their schools and communities. The principal learning/teaching mode is verbal interaction in small and large discussion formats, as well as a variety of cooperative activities.
Exempt From Repeat Provisions

CSKLS 770 SUPERVISED TUTORING

(Formerly CSKL 770) 0 Unit/10 hours by arrangement. Non-Credit Course.
Description: Supplemental tutoring, individual or small group, for skill-building in a variety of academic subject areas, focusing on specific learning needs in math, reading, and writing, as recommended by the referring course instructor or counselor.
Exempt From Repeat Provisions

COMMUNICATION STUDIES (COMM)

COMM 1 INTRODUCTION TO PUBLIC SPEAKING

(Formerly SPCH 1A) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A.
Transferability: CSU;UC.
C-ID: COMM 110
GE: *AA/AS area B;CSU area A1;IGETC area 1C*
Description: The study of public speaking. Improves the student's ability to prepare and deliver a public speech. Improves the student's ability to critically evaluate various forms of communication.

COMM 2 SPOKEN WORD

(Formerly SPCH 2) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Completion of ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: COMM 170
GE: *AA/AS area E;CSU area C2*
Description: Introduction to the artistic process of studying and communicating literature through its performance.

COMM 3 INTRODUCTION TO ARGUMENTATION

(Formerly SPCH 3A) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: COMM 120
GE: *AA/AS area B;CSU area A3*
Description: The study of argumentation, including methods of analysis, research, detecting fallacies of reasoning, use and tests of evidence, refutation and debate as a practical application of these principles.

COMM 5 GROUP DISCUSSION AND PROBLEM SOLVING

3 Units/3 hours lecture. Grade or P/NP. Recommended: Course Completion of ENGL 100 OR Course Completion of ESL 100.
Transferability: CSU;UC.
C-ID: COMM 140
GE: *AA/AS area B;CSU area E*
Description: Experiential study of small-group discussion, including problem solving, conflict resolution, group roles, leadership styles, interest-based negotiating, group-meeting protocols, organizational communication, and cultural diversity.

COMM 6 INTERPERSONAL COMMUNICATION

(Formerly COMM 66) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: COMM 130
GE: *AA/AS area B;CSU area E*
Description: Explores through theory and practice the ways people communicate one-on-one and in informal

situations. Studies awareness of perception, development of self-concept, self-disclosure, listening, relationships, language and conflict through verbal and nonverbal communication. Builds communication skills through experiential activities.

COMM 7 INTERCULTURAL COMMUNICATION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: COMM 150
GE: *AA/AS areas D,G;CSU area D;IGETC area 4*
Description: This survey course introduces students to the influence of culture on identity, perception, social organization, language and nonverbal messages in intercultural experiences in the United States. The course examines variations and commonalities in communication patterns across cultures.

COMM 9 CRITICAL THINKING AND ARGUMENTATION

(Formerly SPCH 9) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or higher.
Transferability: CSU;UC.
C-ID: COMM 120
GE: *AA/AS area B;CSU area A3;IGETC area 1B*
Description: Primary emphasis is on argumentation as the study of analysis, evidence, reasoning, refutation and rebuttal in oral and written communication. A significant component involves written argumentation with special attention to the essay form.

COMM 10 INTRODUCTION TO COMMUNICATION STUDIES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: COMM 180
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: An introduction to the theory of human communication.

COMM 49 INDEPENDENT STUDY IN COMMUNICATION STUDIES

1 Unit/3 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Special projects by arrangement to provide for independent study and enriched academic experience in Communication Studies.

COMM 52A FORENSICS 1 (SRJC SPEECH TEAM)

6 Units/3 hours lecture, 3 hours laboratory, 6 hours by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
C-ID: COMM 160B
Description: Preparation for participation in novice forensics tournaments. Activities range from debate to public speaking to oral interpretation of literature.

COMM 52B FORENSICS 2 (SRJC SPEECH TEAM)

6 Units/3 hours lecture, 3 hours laboratory, 6 hours by arrangement. Grade or P/NP. Prerequisite: Course Completion of COMM 52A.
Transferability: CSU.
C-ID: COMM 160B
Description: Preparation for participation in novice and junior level forensics tournaments. Activities range from debate to public speaking to oral interpretation of literature.

COMM 52C FORENSICS 3 (SRJC SPEECH TEAM)

6 Units/3 hours lecture, 3 hours laboratory, 6 hours by arrangement. Grade or P/NP. Prerequisite: Course Completion of COMM 52B.
Transferability: CSU.
C-ID: COMM 160B
Description: Preparation for participation in junior and open division forensics tournaments. Activities range from debate to public speaking to oral interpretation of literature.

COMM 52D FORENSICS 4 (SRJC SPEECH TEAM)

6 Units/3 hours lecture, 3 hours laboratory, 6 hours by arrangement. Grade or P/NP. Prerequisite: Course Completion of COMM 52C.
Transferability: CSU.
C-ID: COMM 160B
Description: Preparation for participation in open division forensics tournaments. Activities range from debate to public speaking to oral interpretation of literature. Introduction to tournament operations.

COMM 60 COMMUNICATION SKILLS

(Formerly SPCH 60) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
***GE:** AA/AS area B;CSU area A1*
Description: This class focuses on four areas: public speaking, interpersonal communication, intercultural communication, and communication in groups with special emphasis on career-focused communication.

COMM 98 INDEPENDENT STUDY IN COMMUNICATION STUDIES

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring faculty, department chair and supervising administrator.
Transferability: CSU.
Description: Seminars or individual conferences by arrangement to provide for independent study and enriched academic experience in Communication Studies.

COMMUNITY HEALTH WORKER (CHW)

CHW 150 INTRODUCTION TO COMMUNITY HEALTH WORK

(Formerly CHW 50) 1 Unit/1 hour lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion or Concurrent Enrollment in HLC 160.
Description: This course is designed to give an overview of the SRJC Community Health Worker (CHW) program, the roles of CHWs, and the philosophy of community health work. It will focus on core competencies for CHWs, evolution of the CHW field in the United States, CHWs and public health, and promoting health equity. A field trip to a health clinic, and four hours of community volunteer work with a community agency will also be part of the course.

CHW 151 OUTREACH TECHNIQUES AND STRATEGIES

(Formerly CHW 51) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion CHW 150 and Concurrent Enrollment in CHW 151L. Recommended: Eligibility for ENGL 1A or equivalent.
Description: This course will provide core competencies for Community Health Workers (CHWs) to become compassionate providers to people of all backgrounds. Focus will include improving CHW cultural effectiveness, increasing ethical and self-awareness, identifying CHW scope of practice, promoting health behavior change, conducting client interviews, managing cases, and preparing for home visiting.

CHW 151L OUTREACH EXPERIENCE

(Formerly CHW 51L) 2.5 Units/7.5 hours by arrangement. Grade Only. Prerequisite: Concurrent Enrollment in CHW 151 and Course Completion of CHW 150. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Students must comply with all of the following before they are allowed onsite at the clinical sites: Currency on all immunizations including annual flu shots, currency on annual tuberculosis clearance, and a completed health exam.
Description: Community Health Work (CHW) outreach experience in supervised outreach activities in a Sonoma County health-related agency, organization, health center or program and the community it serves, practicing skills learned in Outreach Techniques and Strategies, CHW 151.

CHW 152 HEALTH ISSUES AND RESOURCES

(Formerly CHW 52B) 3 Units/3 hours lecture. Grade Only. Prerequisite: Concurrent Enrollment in CHW 152L and Course Completion of CHW 151 and Course Completion of CHW 151L. Recommended: Eligibility for ENGL 1A or equivalent.
Description: Community Health Worker (CHW) students will examine health issues and identify community resources for vulnerable populations in Sonoma County. They will also improve skills in conflict resolution, health outreach, community assessments, community organizing, and CHW self-care.

CHW 152L OUTREACH EXPERIENCE II

(Formerly CHW 52BL) 2.5 Units/7.5 hours by arrangement. Grade Only. Prerequisite: Concurrent Enrollment in CHW 152; and Course Completion of CHW 151 and CHW 151L. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Students must comply with all of the following before they are allowed onsite at the clinical sites: Currency on all immunizations including annual flu shots, currency on annual tuberculosis clearance, and a completed health exam.
Description: Community Health Work (CHW) outreach experience in supervised outreach activities in a Sonoma County health-related agency, organization, health center or program and the community it serves, practicing skills learned in Outreach Techniques and Strategies, CHW 152. This outreach experience is a continuation of CHW 151L with a focus on higher-level skills such as case management and referrals, one-on-one patient counseling, conflict resolution, and stress management.

CHW 153 COMMUNITY HEALTH EDUCATION

(Formerly CHW 53) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of CHW 150, CHW 151 and CHW 151L. Recommended: Eligibility for ENGL 1A or equivalent.
Description: Strategies will be developed for effective health education by Community Health Workers (CHWs). Topics include the CHW role in facilitating groups, community health education trainings for specific health issues, promoting health in communities, and assisting clients in accessing health and social service agencies.

CHW 154 DISEASE PREVENTION AND HEALTH PROMO VULNERABLE POPULATIONS

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CHW 150. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Community Health Worker (CHW) students will focus on common Sonoma County chronic and infectious diseases in vulnerable populations using a series of modules that provide opportunities for CHW client assessments, disease prevention, health promotion, health provider teamwork tips, and home visiting strategies and referrals.

CHW 155 MENTAL HEALTH PROMOTION

2.5 Units/2.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course will prepare students to utilize leadership and program planning techniques and to serve as peer-to-peer mental health advocates that promote mental health in a positive, interactive and nonjudgmental manner. Students will develop and implement mental health promotion projects and will learn bystander intervention skills so that they can help a person who is experiencing a mental health challenge.

CHW 156 DENTAL HEALTH PROMOTION

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Community health workers and others serving vulnerable populations will benefit from the acquisition of knowledge and skills to assist families and individuals in preventing dental disease, accessing dental services and developing individual health promotion plans. This course is aimed primarily at SRJC students enrolled in the Community Health Worker (CHW) program as an elective to complete the certificate program, and members of the community who are employed as health promotors, community health workers or care coordinators.

COMMUNITY INVOLVEMENT (CI)

CI 51 COMMUNITY ENGAGEMENT

0.5-3 Units/Up to 9 hours by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete and informational meeting with instructor, understand requirements for placement, confirm knowledge of work-based learning objectives, and secure volunteer placement prior to enrollment.
Transferability: CSU.
Description: A self-directed student volunteer program designed to facilitate experiential learning and service to the community. Students work 50 hours per unit per semester for 0.5-3.0 units of credit at a variety of placements including schools, animal-care facilities, recreation programs, day care centers, and various social service agencies.

CI 53 COMMUNITY ENGAGEMENT RELATED TO ENVIRONMENTAL STUDIES

0.5-3 Units/Up to 9 hours by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete and informational meeting with instructor, understand requirements for placement, confirm knowledge of work-based learning objectives, and secure volunteer placement prior to enrollment.
Transferability: CSU.
Description: A self-directed student volunteer program designed to facilitate experiential learning and service in the environmental community. Students work 50 hours per unit per semester for 0.5 to 3.0 units of credit at a variety of placements including regional parks, environmental organizations, wildlife agencies, wilderness centers, nature preserves and fish hatcheries. Volunteer activities may include restoring wildlife habitat; tree planting; rescuing, rehabilitating and caring for wildlife; caring for hiking trails; and other environmental projects.

CI 54 COMMUNITY ENGAGEMENT RELATED TO HEALTH CARE

0.5-3 Units/Up to 9 hours by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete and informational meeting with instructor, understand requirements for placement, confirm knowledge of work-based learning objectives, and secure volunteer placement prior to enrollment.
Transferability: CSU.
Description: A self-directed student volunteer program designed to facilitate experiential learning and service in the health care community. Students work 50 hours per unit per semester for 0.5 to 3 units of credit at a variety of health care placements including: hospitals, clinics, convalescent hospitals, home health care. Volunteer activities may include: observing/ assisting in a health care institution in the fields of nursing, radiology, physical therapy, or pre-med in an approved volunteer position.

COMPUTER STUDIES (CS)

CS 5 COMPUTER LITERACY

(Formerly CIS 5) 3 Units/3 hours lecture, 1 hour laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *AA/AS area B*
Description: Designed for the transfer student and/or the person wanting a broad knowledge of computer concepts. No previous experience with computers is required or assumed. This course presents an overview of computers in our world today, how they work, how they are used and their impact on society. Students will be introduced to the Internet and World Wide Web, basic programming concepts and productivity software including word processing, spreadsheet, presentation and database software.

CS 10A INTRODUCTION TO PROGRAMMING CONCEPTS AND METHODOLOGIES

(Formerly CS 10) 4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent; AND completion of MATH 155 and some computer experience.
Transferability: CSU;UC.

C-ID: COMP 122
Description: Specification, design, implementation, testing, debugging, maintenance, and documentation of computer programs. Topics include algorithms, languages, software engineering, control structures, functions, and arrays. Numerous programs are written in C++. Intended for both computer science majors and for those seeking a general introduction to computer programming.

CS 10B PROGRAMMING CONCEPTS AND METHODOLOGIES 1

4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of CS 10A. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: Introduces the discipline of computer science using C++ and utilizing programming and practical hands-on problem solving.

CS 10C PROGRAMMING CONCEPTS AND METHODOLOGIES 2

(Formerly CS 11) 4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of CS 10B. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: COMP 132
Description: Application of software engineering techniques to the design and development of large programs; data abstraction and structures and associated algorithms.

CS 12 ASSEMBLY LANGUAGE PROGRAMMING/COMPUTER ARCHITECTURE

(Formerly CIS 22) 4 Units/4 hours lecture. Grade Only. Prerequisite: Course Completion of CS 10B.
Transferability: CSU;UC.
C-ID: COMP 142
Description: Introductory computer architecture and techniques of assembly language programming as they apply to modern microprocessors such as I-86, ARM and/or PowerPC. Topics include theory and concepts of virtual memory, pipelines, caches, and multitasking, hardware architecture (bus, memory, stack, I/O, interrupts), design of structured assembly language code, use of software interrupts, survey arithmetic notations (binary, hexadecimal, floating- point, binary-coded decimal), input/output, and disk processing concepts.

CS 17.11 JAVA PROGRAMMING

(Formerly CIS 17) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of CS 10A. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
Description: Intended for students with previous programming experience. Topics include: Object-oriented programming principles, Java language constructs, the JDK (Java Developer's Kit), class libraries, Web Services, GUI (Graphical User Interface) development, applications, Java interface to databases.

CS 49 INDEPENDENT STUDY IN COMPUTER STUDIES

(Formerly CIS 49) 1-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.

Description: Special projects by arrangement to provide for independent study and an enriched academic experience for continuing and advanced students. UC determines credit AFTER transfer; not counted for admission. (See a counselor for details.)

CS 50A WEB DEVELOPMENT 1

3 Units/3 hours lecture. Grade or P/NP. Recommended: Course Completion of CS 5 and Course Eligibility for ENGL 1A.
Transferability: CSU.
Description: This course provides an introduction to client-side Web development technology and design. Students learn the basics of current versions of the two primary markup languages used to create Web pages, HTML5 and CSS3, while studying the current industry practices related to user-centered design, including visual and interaction design.

CS 50B WEB DEVELOPMENT 2

(Formerly CS 50.11C) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CS 50A. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: This class offers advanced instruction instruction through project-based assignments in client-side Web development technology and design. Students use HTML5 and CSS3, as well as basic JavaScript coding with jQuery to create interactive user interfaces. Topics include working with frameworks such as Bootstrap; advanced CSS coding using language pre-processors; and an introduction to the WordPress Web Content Management System.

CS 50C WEB DEVELOPMENT 3- JAVASCRIPT

(Formerly CS 50.12) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in CS 50B. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: This course focuses on JavaScript programming for client-side Web development. Students learn to create advanced interactive projects including games, data visualizations, generative art, and other browser-based interactive experiences. Students gain experience working with open source JavaScript libraries such as jQuery, the Google Maps API, D3.js and many others. Project-based assignments lead to a comprehensive portfolio Web site of all class projects.

CS 50.32 WEB AND DIGITAL MEDIA PROJECTS

(Formerly CIS 58.55) 4 Units/4 hours lecture. Grade Only. Prerequisite: (For Web and Multimedia) Completion or Current Enrollment in CS 50C; OR (For Digital Filmmaking) Completion of CS 74.11 and MEDIA 20 and CS 74.21B; OR (For Digital Audio) Completion of CS 74.11 and MUSC 51B and MUSC 60B.
Transferability: CSU.
Description: This advanced project management course guides teams of digital filmmakers, digital audio producers, web graphic designers, web programmers and interactive multimedia designers, through the process of developing an interactive digital media project for local clients. Topics include: Writing a proposal, bidding a job, storyboard and timeline creation, content development, effective teamwork, communication skills, production techniques, client relations, project delivery and maintenance. Students will work in teams to develop a digital media project for a client provided by the instructor. This course is the capstone experience for Digital Filmmaking, Digital Audio, and Web and Multimedia Design certificate programs.

CS 55.13 SERVER-SIDE WEB DEVELOPMENT

(Formerly CIS 58.41) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CS 50A. Recommended: Eligibility for ENGL 100 or ESL 100; AND Completion of CS 10A.
Transferability: CSU.
Description: This is an introduction to server-side Web development using open source technologies as well as a comprehensive course in the server-side scripting languages such as PHP hypertext preprocessor scripting language. The course covers writing server-side scripts for the Web, such as PHP, procedural and object-oriented programming, Web form management, an introduction to SQL statements and databases. Advanced topics are covered including dynamic generation of content using databases, sessions, cookies, Web services, e-commerce, and authentication. Previous programming experience recommended.

CS 57.11 INTRODUCTION TO SOCIAL MEDIA

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
GE: *CSU area D*
Description: Social Media enables individuals to create, collaborate, and share information with others. Students will explore the possibilities and limitations of social media and will have hands-on experience with several forms of social media technology, such as Facebook, Twitter, blogs, and wikis. Those who complete this course will know how to use social media productively and have a framework for understanding and evaluating new tools and platforms.

CS 60.11A MICROSOFT WORD, PART 1

(Formerly BOT 73.12A) 1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Completion of BGN 101 or knowledge of the keyboard and ability to type by touch. Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: The course emphasizes preparation of accurately formatted Microsoft Word documents and flyers. Features include character, paragraph, and page formatting; proofreading tools; tables; bulleted and numbered lists; page numbering; graphics; and managing files.

CS 60.11B MICROSOFT WORD, PART 2

(Formerly BOT 73.12B) 1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in CS 60.11A. Recommended: Completion of BGN 101 or knowledge of the keyboard and ability to type by touch.
Transferability: CSU.
Description: This course is designed to increase productivity in Microsoft Word by using advanced features and formats.

CS 61.11 MICROSOFT EXCEL

(Formerly CIS 61.31) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: An introduction to the use of Microsoft Excel software. Topics covered include the Excel user interface, creation of simple and advanced formulas and functions, chart creation, linked and 3D formulas, Excel's database commands, what if analysis, pivot table and pivot charts and an introduction to macros and visual basic for applications (VBA).

CS 61.11A MICROSOFT EXCEL, PART 1

(Formerly BOT 73.13A) 1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100; AND Completion of BGN 101 or knowledge of the keyboard and ability to type by touch.
Transferability: CSU.
Description: This course emphasizes creating, editing, formatting and printing Excel worksheets, workbooks, charts and web pages, using functions and formulas, and worksheet analysis. This course aligns with the Microsoft Office Specialist Certification Test.

CS 61.11B MICROSOFT EXCEL, PART 2

(Formerly BOT 73.13B) 1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in CS 61.11A. Recommended: Course Completion of BGN 101; OR knowledge of the keyboard and ability to type by touch.
Transferability: CSU.
Description: This course uses advanced Excel tools such as macros, workbook protection, Goal Seek, Solver, Scenarios, and PivotTables and PivotCharts. This course aligns with the Microsoft Office Specialist Certification test.

CS 62.11A MICROSOFT POWERPOINT, PART 1

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course emphasizes the creation of slide presentations by adding visual elements, applying textual formatting, and working with graphics and slide customization.

CS 62.11B MICROSOFT POWERPOINT, PART 2

(Formerly BOT 73.15B) 1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in CS 62.11A.
Transferability: CSU.
Description: This course emphasizes the creation of interactive PowerPoint presentations, animating text and objects, adding, formatting, and modifying pictures, charts and tables, and saving PowerPoint presentations in a variety of formats and delivery methods.

CS 63.11A MICROSOFT ACCESS, PART 1

(Formerly BOT 73.14A) 1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Learn to use Windows database management software package, Microsoft Access, with a hands-on introduction to database administrative tasks: data input, storage, retrieval, editing and reporting.

CS 63.11B MICROSOFT ACCESS, PART 2

(Formerly BOT 73.14B) 1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in CS 63.11A.
Transferability: CSU.
Description: An advanced database course for the student who wants to become proficient in database management software. Students will perform advanced administrative tasks using Microsoft Access for business and personal data-handling tasks; emphasis on relational and multiple database design, advanced storage, retrieval, queries, reporting, Structured Query Language (SQL),

CS 65.11 MICROSOFT OFFICE

(Formerly CIS 74.11) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100; AND Course Completion of CS 5.
Transferability: CSU.
Description: An introductory course using programs contained in the Microsoft Office Suite. Using Word, students will create and format documents including inserting graphics and mail merging. Using Access, students will create databases and manipulate data with queries and display data with forms and reports. Using Excel, students will create spreadsheets with basic formulas and functions and prepare charts to display the spreadsheet data. Using PowerPoint, basic presentations will be made. Students will also exchange data between programs.

CS 70.11A ADOBE PHOTOSHOP 1

(Formerly CIS 73.21) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 AND Course Completion of CS 101A OR CS 105A OR CS 5.
Transferability: CSU.
Description: This course covers the beginning skills of image production and manipulation, using the industry-standard Adobe Photoshop to work with digital images for both Web and print use.

CS 70.11B ADOBE PHOTOSHOP 2

(Formerly CIS 73.22) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CS 70.11A.
Transferability: CSU.
Description: Adobe Photoshop topics covered in this class include: layer, channel and mask manipulation; image repair and adjustment; vector graphics and type; actions; and filters.

CS 71.11 ADOBE ILLUSTRATOR 1

3 Units/3 hours lecture. Grade or P/NP. Recommended: Completion of CS 5; AND Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course covers the popular graphics software program Adobe Illustrator. Topics include the creation, modification and formatting of vector objects and type, importing/exporting graphics, live effects, and other Illustrator tools.

CS 72.11A ADOBE INDESIGN 1

(Formerly CIS 73.41A) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: An introduction to desktop publishing using Adobe InDesign. Students will create graphically rich layouts with formatted text to create fliers, brochures, slideshows, promotional materials, and newsletters for print, web and PDF.

CS 72.11B ADOBE INDESIGN 2

(Formerly CIS 73.41B) 4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CS 72.11A. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Further study of the principles and applications of desktop publishing using Adobe InDesign. Advanced techniques in layout, text formatting, graphics, styles, libraries, and frames are applied to books, tables, booklets, and Portable Document Format (PDF) files.

CS 72.11C ADOBE INDESIGN 3

(Formerly CIS 73.41C) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CS 72.11B. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: An advanced study of workflow techniques based on Adobe InDesign projects. Using most of the programs in the Adobe Creative Suite/Creative Cloud, the entire cycle of document production, management, and review will be explored, with emphasis on digital media including EPUB and Digital Publishing.

CS 74.11 INTRODUCTION TO DIGITAL MEDIA

(Formerly CIS 75.1) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: An introduction to digital imaging, illustrations, audio, video, animation and web content design best practices and content development. Using industry standard software, students will create and display a digital media portfolio on a website that they design. The portfolio will include text, graphics, logos, animation, video, and audio.

CS 74.21A DIGITAL VIDEO POST-PRODUCTION TECHNIQUES 1

(Formerly CIS 75.11A) 1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100; AND Course Completion of CS 101A OR CS 105A.
Transferability: CSU.
Description: This introductory class will teach video post-production fundamentals using prosumer-level NLE (Non-Linear Editing) digital video software. Lessons include an intro to: mixing, TRT, timelines, sequences, time code, bins, effects, titles, transitions, aspect ratios, project asset management, project files and exported movie files, basic camera techniques, white balance, audio for video, zebras, lighting, and how to purchase a camera. Demonstration of knowledge of these concepts will culminate in a short video that displays the application of these techniques. Students are not required to film or have access to a camera for this class.

CS 74.21B DIGITAL VIDEO POST-PRODUCTION TECHNIQUES 2

(Formerly CIS 75.11B) 1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Course Completion CS 74.21A OR CS 74.11.
Transferability: CSU.
Description: This course focuses on intermediate level features of professional NLE (Non-Linear Editing) video post-production software. Students will explore editing and special effects techniques which include: working with multiple sequences, key frame animations, creating, modifying and saving effects, transitions and titles, green screen masking, basic compositing, J & L audio cuts and authoring a Flash DVD (Digital Video Disc) using Adobe Encore. Students will create a final edited video project utilizing these skills.

CS 74.21C DIGITAL VIDEO POST-PRODUCTION TECHNIQUES 3

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CS 74.21B. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This advanced class will teach industry quality, non-linear video editing and post-production techniques. Students will work with professional visual effects software to apply 3D (three-dimensional) animations and high-level visual effects to their video projects, and use production and image editing software to author professional quality DVDs (Digital Video Discs).

CS 74.40 HISTORY OF GAMES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
GE: *AA/AS area E*
Description: This course includes a comprehensive study of the evolution of games throughout human history, with an emphasis on early games' impact and influence on video games. Review of the technological and artistic antecedents, with analysis of how video games reflect the beliefs, aspirations and values of the cultures where they flourish. Study includes gameplay experience and analysis of notable game genres, identifying significant artistic and technological innovations. Students will investigate gameplay and create a non-digital game that is informed by the study of game history.

CS 74.41 GAME DESIGN

(Formerly CS 74.41A) 4 Units/4 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course will introduce students to the basics of game design and theory using analysis, research, critiques and projects. Students will learn about the game industry and what is required to develop a video game through assignments. Students will design, model and build working video game prototypes.

CS 74.42 INTRODUCTION TO GAME CODING

(Formerly CS 74.42A) 4 Units/4 hours lecture. Grade or P/NP. Recommended: Course completion of CS 110A and/or programming experience.
Transferability: CSU.
Description: This course introduces students to the design, development, and coding of simple graphical computer-based games. During the course, students will be introduced to various game engines and development environments. Students will gain experience working individually and in a team environment. Emphasis is placed on engaging players through compelling application of game mechanics, dynamics, and aesthetics, as well as on playtesting and iterative development to ensure user-centered design goals are met.

CS 76.11 DRONE PILOTING AND IMAGING

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: An introduction to using drones for digital imaging. This course is designed to give the student the ability to photograph both stills and videos from drones. Emphasis is placed on safety, equipment selection, flying, and becoming licensed to use drones for commercial purposes. Provides a starting point to using drones in multiple disciplines and careers.

CS 78.1 3D PRINTING

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of CS 70.11A.
Transferability: CSU.
Description: This course will introduce students to the basics of working in a 3D environment, including scanning, editing, and printing 3D objects. Through lectures, demonstrations, and hands-on lab exercises, students learn the fundamentals of 3D and apply the learned concepts to modify and create 3D models.

CS 78.1A MAKE IT WITH 3D PRINTING

1.5 Units/3 hours lecture, 1 hour laboratory for 8 weeks. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Learn where to find 3D models and turn them into physical objects using a variety of 3D printers. Includes learning about the features and abilities of 3D printers and the software and hardware used for 3D printing.

CS 78.1B DESIGN IT FOR 3D PRINTING

1.5 Units/3 hours lecture, 1 hour laboratory for 8 weeks. Grade or P/NP. Prerequisite: Course Completion of CS 78.1A. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Learn how to modify existing 3D models and create your own custom objects. Work with 3D modeling and slicing software to print these objects.

CS 80.11 EXPLORING MICROSOFT WINDOWS

(Formerly CIS 50.91) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of CS 5.
Transferability: CSU.
Description: Introduces the student to the basics of working with Microsoft Windows. Topics covered will include: customizing Windows, optimizing a hard drive, using File Explorer for file management, enhancing computer security, troubleshooting Windows, evaluating system performance, editing the Windows registry and using the command line environment.

CS 80.15 IT ESSENTIALS 1: PC HARDWARE AND SOFTWARE

4 Units/4 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Information Technology (IT) Essentials curriculum provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level Information Communication Technology (ICT) professionals. The curriculum covers the fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional. The IT Essentials (ITE) curriculum emphasizes practical experience to help students develop fundamental computer and career skills. ITE helps students prepare for entry-level career opportunities in ICT and the CompTIA A+ certification. The course also provides a learning pathway to Cisco Certified Network Associate (CCNA).

CS 81.21 INTRODUCTION TO LINUX

(Formerly CIS 50.71) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course will introduce the student to the basic concepts of the Linux Operating System. Completion of the course will provide a basic working knowledge of: free and open-source software and licenses, essential Linux commands, login and logout sequences, setting passwords, hardware, processes, programs and the components of the Linux Operating System, creating and restoring compressed backups and archives, system security, users/groups and file permissions for public and private directories, creating and running simple scripts and basic system administration.

CS 81.62 RELATIONAL DATABASE CONCEPTS AND STRUCTURED QUERY LANGUAGE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course introduces relational database concepts, design and administration. Students will learn the syntax and use of Structured Query Language (SQL) and how to install and run a relational database server such as MySQL and how to design relational database for applications.

CS 82.21A NETWORK FUNDAMENTALS (CISCO NETWORKING 1)

4 Units/4 hours lecture. Grade or P/NP. Recommended: Completion of CS 80.15 AND CS 81.21 AND Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. It uses the OSI (open systems interconnection) and TCP (transmission control protocol) layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. The principles and structure of IP (internet protocol) addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. Network simulator activities help students analyze protocol and network operation and build small networks in a virtual environment. Students build simple LAN (Local Area Network) topologies by applying basic principles of cabling, performing basic configurations of network devices, including routers and switches, and implementing IP addressing schemes.Network Fundamentals is the first of the four courses leading to the Cisco Certified Network Associate (CCNA) designation. CCNA 1 introduces Cisco Networking Academy Program students to the networking field.

CS 82.21B ROUTING AND SWITCHING ESSENTIALS (CISCO NETWORKING 2)

4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Completion of CS 82.21A. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality and learn and the principles of routing and routing protocols. By the end of this course students will be able to configure and troubleshoot routers and switches and resolve common issues with single-area OSPF (Open Shortest Path First), VLANS (Virtual Local Area Networks), and inter-VLAN routing in both IPv4 and IPv6 networks. Routing and Switching Essentials is the second of the four courses leading to the Cisco Certified Network Associate (CCNA) designation. CCNA 2 builds and expands on the topics learned in Networking Fundamentals (CCNA 1) and prepeares the students to take the Cisco Certified Entry Networking Technician (CCENT) test.

CS 82.55 PRINCIPLES OF COMPUTER SECURITY

(Formerly CIS 56.21) 4 Units/4 hours lecture. Grade or P/NP. Recommended: Completion of CS 80.13 and CS 82.21A AND Eligibility for ENGL 100 OR ESL 100.
Transferability: CSU.
Description: Students will begin learning the essentials of computer security. They will be aware of security objectives and the role of policy deployment while practicing to defend against network attacks. After a review of

security trends, concepts, roles and network fundamentals students will learn: cryptography, public key infrastructure, standards and protocols, impact of physical security on computer security, infrastructure security, remote access, wireless and instant messaging, intrusion detection and system baselines. Internet-based curriculum describing a start-up company in which the coverage of CompTIA's Security+ certification exam and the International Information Systems Security Certification Consortium (ISC)2 Systems Security Certified Practitioner (SSCP) certification, focuses on best practices, roles, and responsibilities of security experts, is integral to the course.

CS 82.56 COMPUTER NETWORK SECURITY

4 Units/4 hours lecture. Grade or P/NP. Recommended: Course Completion of CS 82.21A AND Eligibility for ENGL 100 or ESL 100.

Transferability: CSU.

Description: An in-depth exploration of the essentials of computer network security. Students will analyze security objectives and the role of policy deployment while they practice defending against network attacks. Students will learn about attacks and malware, E-mail, web components, software development, disaster recovery, risk, change and privilege management, forensics and legal issues. Scenario-based curriculum describing a start-up company in which the students are employed with specific roles, will also be incorporated in the class. Tasks and product deliverables, for the start-up company, which are based on industry standards, augment assignments and exams. Coverage of both CompTIA's Security+ certification exam and the (ISC)2 SSCP certification, is integral to this course. Students should have a familiarity with network operating systems.

CS 84.13 IT SUPPORT

3 Units/3 hours lecture, 1 hour laboratory. Grade or P/NP.

Transferability: CSU.

Description: This course introduces students to the knowledge necessary to support information technology (IT) solutions and users of such systems. Topics include introduction to IT support, resolving service calls, installing and configuring computer hardware, software applications, networks, security, client-server and mobile computing, web applications, multimedia resources, communications systems, and the planning and management of the technology lifecycle.

CS 84.21 MANAGEMENT INFORMATION SYSTEMS

(Formerly CIS 66) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of CS 5.

Transferability: CSU.

C-ID: BUS 140

Description: An examination of the use of information systems to support the management activities of an organization. Topics include: the fundamentals of hardware, software, database management, data communications, transaction processing information systems, decision support systems, information reporting systems, office automation, networks, expert systems, cloud computing, mobile computing and systems analyses and design. Case studies and several software packages will be utilized to illustrate the principles covered.

CS 98 INDEPENDENT STUDY IN COMPUTER STUDIES

0.5-3 Units/Up to 9 hours by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.

Transferability: CSU.

Description: Special projects by arrangement to provide for independent study and an enriched academic experience for continuing and advanced students.

CS 99I COMPUTER STUDIES OCCUPATIONAL WORK EXPERIENCE INTERN

(Formerly CIS 99I) 0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an application, interview, placement and verification of employment because intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Computer Studies Occupational Work Experience Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship placement; and supervised employment of students that extends to the job site classroom learning that relates to the student's educational or occupational goal in Computer Studies. Students eligible for internships will have declared a major, have completed courses in their major, or have acquired a high level of skill in their discipline, and are ready for on-the-job experience in a paid position (75 hours/per unit). Students will acquire new knowledge, skills, and abilities to prepare for a career in their chosen field of Computer Studies.
16 Units Total (WrxEx only)

CS 101 INTELLECTUAL PROPERTY IN THE DIGITAL WORLD

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course will cover the different intellectual property (IP) protections related to digital creations. Students will also gain an appreciation of the strategies to guard against infringing upon another's intellectual property rights in the digital world.This course provides students with an overview of the different forms of IP. It will analyze the creations that patents, copyrights, and trademarks protect, with an emphasis on digital creations.

CS 110A CODING FOR BEGINNERS

(Formerly CIS 110A) 1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course is designed to teach basic computer programming concepts to anyone – no programming experience required. Using simple tools, students will learn the building blocks of computer programs in a stress-free environment. This introduction to coding will guide students through the process of creating simple programs, starting with graphical coding tools.

CS 157.12 MOBILE MEDIA DESIGN FUNDAMENTALS

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CS 74.11 and CS 50.11B. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course introduces core principles and techniques essential to building web sites for mobile devices. It includes units on content adaptation strategies, designing forms for mobile devices, detecting client capabilities, viewing and testing with emulators, creating adaptive sites for multiple screens, using webfonts, Asynchronous JavaScript and XML (AJAX), and other current technology. Although this course is focused on the design side of the mobile applications, it does introduce aspects that are connected to the development side as well.

CS 165.31 MICROSOFT OFFICE INTEGRATION

0.5 Unit/0.5 hour lecture. P/NP Only. Recommended: Course completion of CS 5 OR Course completion of CS 60.11A and CS 61.11A and CS 62.11A.
Description: Students will customize options and integrate Microsoft Office applications, start Office documents, find and open Office documents, explore Command bars, use OfficeArt and WordArt, link and embed objects, create hyperlinks, insert Word tables into Excel and PowerPoint, insert Excel charts into Word and PowerPoint, and share data among Office applications.

CS 167.11 MICROSOFT OUTLOOK

0.5 Unit/0.5 hour lecture. P/NP Only.
Description: In this course students receive an overview of Microsoft Outlook: work with Contacts, building an Address Book, use the Calendar to set appointments, events, and meeting, compose emails in plain text and HTML sending to individuals and distribution lists, use Journal, Notes, and Tasks, and use Outlook with other applications.

CS 176.12 APPLIED DRONE PROJECTS

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of CS 76.11.
Description: Use of drone technology to complete real-world projects including photography/videography and basic mapping.

CS 182.21C SCALING NETWORKS (CISCO NETWORKING 3)

(Formerly CS 82.21C) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CS 82.21B. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Scaling Networks (CCNA 3) is the third of the four courses that prepares students for the Cisco Certified Networking Associate (CCNA) certification. This course describes the architecture, components, and operations of routers and switches in a large and complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with single and multi-area Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP) and Rapid Spanning Tree Protocol (RSTP), in both Internet Protocol version 4 (IPv4) and IPv6 networks.

CS 182.21D CONNECTING NETWORKS (CISCO NETWORKING 4)

(Formerly CS 82.21D) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CS 182.21C. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Connecting Networks (Cisco Networking 4) is the last of four courses that prepares students for the Cisco Certified Networking Associate (CCNA) certification. This course discusses the Wide Area Network (WAN) technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students also develop the knowledge and skills needed to implement Internet Protocol Security (IPSec) and Virtual Private Network (VPN) operations in a complex network.

CS 701 COMPUTER STUDIES SURVEY

0 Unit/10 hours laboratory for 2 weeks. Non-Credit Course.
Description: An overview of the topics taught in the Computer Studies Department. Includes topics such as programming, video editing, social media, and graphic production. Also includes information about possible careers

using these skills.
Exempt From Repeat Provisions

CONSTRUCTION MANAGEMENT TECHNOLOGY (CONS)

CONS 50 CONSTRUCTION SURVEYING AND MEASUREMENTS

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of MATH 154 or MATH 155 or higher (MATH) and APTECH 45.
Transferability: CSU.
Description: Construction surveying and documentation including office and field measurements of distances, elevations, angles and material quantities related to construction layout of building and engineering works.

CONS 62 BLUEPRINT READING AND CONSTRUCTION GRAPHICS

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: Introduction to blueprint reading and construction graphics for residential and commercial buildings including: framing systems; architectural working drawings and electrical, mechanical and plumbing plans; common California Building Code and sustainability issues. Includes scale use and sketching techniques.

CONS 70A INTRODUCTION TO PROJECT ORGANIZATION AND MANAGEMENT

(Formerly CONS 70) 1.5 Units/1.5 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course is an introduction to the organization and management of construction projects, including principles of contracts, estimating, bidding, scheduling, project management cycle, and responsibilities of participants.

CONS 70B PROJECT ORGANIZATION AND MANAGEMENT

1.5 Units/1 hour lecture, 2 hours laboratory. Grade Only. Prerequisite: Course Completion of CONS 70A. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Developing construction project management skills including quantity surveying, cost estimating, and project scheduling, using software such as Microsoft Project, Excel, and industry accepted cost estimating tools.

CONS 71A MATERIALS AND METHODS OF CONSTRUCTION 1

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of APTECH 45. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Study of foundation systems; wall, floor and roof framing systems; exterior and interior finishes; windows and doors; and sustainability issues as found in light-wood frame and light-steel frame construction systems. Includes calculations and sketching.

CONS 71AL MATERIALS AND METHODS OF CONSTRUCTION 1 LAB

1 Unit/3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion or Concurrent Enrollment in CONS 71A; and Course Completion of APTECH 46.
Transferability: CSU.
Description: A project-based class applying the principles learned in CONS 71A to the documentation of a light-wood and light-steel framed building.

CONS 71B MATERIALS AND METHODS OF CONSTRUCTION 2

2 Units/2 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CONS 71A.
Transferability: CSU.
Description: Study of foundation systems; wall, floor and roof framing systems; exterior and interior finishes; windows and doors; and sustainability issues as found in heavy timber, heavy steel, masonry and concrete building construction systems. Includes calculations and sketching.

CONS 71BL MATERIALS AND METHODS OF CONSTRUCTION 2 LAB

1 Unit/3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in CONS 71B.
Transferability: CSU.
Description: A project-based class applying the principles learned in CONS 71B to the documentation of concrete, heavy timber, and heavy steel framed buildings.

CONS 73 ESTIMATING WITH COMPUTERS

1.5 Units/1 hour lecture, 2 hours laboratory. Grade Only. Prerequisite: Course Completion of CONS 70B. Recommended: Course Completion of CS 61.11A.
Transferability: CSU.
Description: Creation of cost estimates for residential and/or commercial projects using an industry-accepted computer program.

CONS 74 CONSTRUCTION PROJECT SCHEDULING

1.5 Units/1.5 hours lecture. Grade Only. Prerequisite: Course Completion of CONS 70A.
Transferability: CSU.
Description: Construction scheduling types are explored: bar charts, S-curves, logical sequencing, and network diagrams. Introduces the use of computers in documenting Critical Path Method (CPM) in scheduling. The role of the schedule in project management is discussed.

CONS 75 SPECIFICATIONS

1.5 Units/1.5 hours lecture. Grade Only. Prerequisite: Course Completion of CONS 71A.
Transferability: CSU.
Description: Introduction to the Construction Specifications Institute (CSI) MasterFormat system for organizing, writing and interpreting specifications. Subjects covered include the numbering and naming of sections, the three parts of a section, correct language, coordination with other construction documents, interpreting a specification, and writing a specification section.

CONS 76 CONSTRUCTION DOCUMENTS

3 Units/2 hours lecture, 3 hours laboratory for 0 week. Grade Only. Prerequisite: Course Completion of CONS 71A.
Transferability: CSU.
Description: Development of construction documents including contracts, specifications, and manuals.

CONS 98 INDEPENDENT STUDY IN CONSTRUCTION MANAGEMENT

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Program Coordinator and Supervising Administrator. Requires instructor's signature for approval.
Transferability: CSU.
Description: Special projects for independent study to provide an enriched academic experience in the field of Construction Management for continuing and advanced students. Requires department approval.

CONS 183 OSHA 10

1 Unit/1 hour lecture. Grade Only. Recommended: Course Eligibility for ENGL 100Course Eligibility for ENGL 100Course Eligibility for ENGL 100Course Eligibility for ENGL 100.
Description: The Occupational, Safety and Health Administration 10 (OSHA 10) training course introduces entry-level workers in construction and construction-related jobs to the basic practices of identifying, reducing, eliminating, and reporting hazards associated with their work. Students who pass the exam at the end of the course are eligible to receive the OSHA 10-Hour Construction Industry Outreach Department of Labor (DOL) course completion card.

COUNSELING (COUN)

COUN 6 INTRODUCTION TO CAREER DEVELOPMENT

(Formerly COUN 62) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *CSU area E*
Description: This course focuses on the ways career development contributes to a satisfying and healthy life, as well as the development of a career plan. Emphasis is on interest and personality testing, values clarification, skills assessment, career information, research skills, decision making, and goal setting. Course also covers changing job trends and requirements, as well as factors related to the procurement and retention of employment.

COUN 10 STUDENT SUCCESS-THE FIRST YEAR EXPERIENCE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *CSU area E*
Description: This course provides students in their first year of college with an introduction to the nature, meanings and outcomes of higher education through the exploration and application of intellectual, social, and psychological principles that lead to well-being and success in college. Students will examine the stages of adult development, learn successful life management techniques, learn strategies for motivation and stress management, and apply creative and critical thinking techniques.

COUN 20 SEX AND GENDER

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *AA/AS area D;CSU areas D,E;IGETC area 4*
Description: This course is an exploration of gender and sexual identity in U.S culture. Topics include: definitions of femininity and masculinity in popular culture, contemporary and traditional sex roles, male and female stereotypes and issues related to sexual orientation, gender and sexual discrimination (sexism, homophobia, sexual harassment, etc.). The relationship between gender and sex and other aspects of our personal and social identities, such as race/ethnicity, age, physical disabilities will be examined. Cross-cultural comparisons of non-Western societies' views of sex and gender identities will be explored.

COUN 53 COLLEGE SURVIVAL TECHNIQUES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
GE: *CSU area E*
Description: This course combines comprehensive academic study strategies with critical thinking and personal development. This course includes the following topics: memory and concentration techniques, lecture note taking systems, textbook study systems, test taking, research strategies, critical analysis, effective problem solving, life and time management, learning styles, personal and educational values and goals, instructor-student relations, and maintaining health.

COUN 60 EFFECTIVE STUDY WORKSHOP

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course is designed to assist students in improving their study skills. Topics include goal identification, organizing study habits, how to read and study textbooks, take effective notes, how to prepare for and take examinations, and the efficient use of the library. Course covers the total development of the individual and attitudes toward academic and personal problem solving.

COUN 74 IDENTITY AND CULTURAL DIVERSITY

(Formerly GUID 74) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
GE: *AA/AS areas D,G;CSU area D*
Description: A comparative and historical analysis of society and individual behavior from a multicultural perspective. An examination of American ethnic/cultural groups (African, Asian, European, Latino and Native Americans) and experiences that influence behavior. The relationship between personality development and culture, barriers to cross cultural interaction, and communication styles will also be explored.

COUN 80 UNDERSTANDING THE TRANSFER PROCESS

(Formerly GUID 80) 1 Unit/1 hour lecture. Grade or P/NP. Recommended: Recommended Eligibility for Engl 100 or ESL 100.
Transferability: CSU.
Description: An introduction to the process of transfer from a community college to a university for the purposes of long-term educational planning. Students will evaluate and choose universities based on research about degrees offered, transfer requirements, the application process, housing, financial aid, scholarships and support services.

COUN 87 ETHICAL ISSUES IN HUMAN SERVICES

1.5 Units/1.5 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course is a comphehensive exploration of the rules and standards governing the professional conduct of those working in human services delivery. Topics include professional ethics, confidentiality, and counselor/client rights and responsibilities.

COUN 90 INTRODUCTION TO HUMAN SERVICES

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
GE: *CSU area E*
Description: An introduction to human services in relation to human/personal development and need across the lifespan. The course explores societal problems and their causes in the context of the human services profession, and involves a critical exploration of the history, standards and theoretical approaches to human service work and meeting peoples' needs. Psychological, physiological and social forces influencing the individual both as helper and client are examined. Students will study national and international welfare systems, the diverse populations served, and the legal, political and social issues that affect individuals within their community.

COUN 91 SKILLS AND TECHNIQUES IN HUMAN SERVICES

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of COUN 74 and COUN 90 and PSYCH 1A or PSYCH 5.
Transferability: CSU.
Description: This is a survey course of interview and counseling techniques appropriate for paraprofessionals in mental health, corrections, and substance abuse counseling. Theoretical focuses include client centered approach, family therapy, cultural diversity and chemical dependency treatment.

COUN 92 INTRODUCTION TO GROUP COUNSELING

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: An introduction to the dynamics of group interaction with emphasis upon the individual's firsthand experience as a group leader and member. The factors involved in problems of communication, effective emotional responses and personal growth will be highlighted. Emphasis will be placed on group process as a means of changing behavior. This course is designed to help students who will function as leaders in a variety of small group situations.

COUN 93 INTRODUCTION TO CASE MANAGEMENT

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of COUN 90.
Transferability: CSU.
Description: The different phases and components of case management as a model of service delivery will be explored. This course will also include experiential skill development relevant to the practice of case management in the human services field.

COUN 94 INTRODUCTION TO CRISIS COUNSELING

(Formerly GUID 201) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of COUN 90 and COUN 74 and PSYCH 1A.
Transferability: CSU.
Description: Students will study and practice techniques used for intervention and crisis counseling, intake interviewing and referral. Participants will learn and practice skills in attentive listening, recognizing and responding to different levels of client communication.

COUN 95 ADVOCATING FOR SOCIAL CHANGE

(Formerly GUID 200) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of COUN 90 and COUN 74.
Transferability: CSU.
Description: This course is designed to prepare students to perform advocacy work at the community, legislative and legal levels. Contemporary social, political and economic issues will be discussed with special emphasis on the examination of social service issues and programs. How to influence social policy will be introduced. Essential skills and knowledge of the advocacy process for effective change will be developed using the Social Change Model of Leadership Development.

COUN 96 DISABILITY AND SOCIETY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: An introduction to the history, theory, defining problems, and causes of disability. Includes disability culture, a review of the major physical, cognitive, and psychiatric disabilities as well as co-occurring conditions such as substance abuse and psychiatric disorders. Explores characteristics of a disability service worker. Examines national, regional, and local agencies for various disabilities.

COUN 98 INDEPENDENT STUDY IN COUNSELING

1-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Approval of project proposal by sponsoring faculty, Department Chair, and supervising administrator.
Transferability: CSU.
Description: Individualized studies in Counseling and/or Human Services. Independent study will provide an enriched academic experience on an approved research topic.

COUN 99I OCCUPATIONAL WORK EXPERIENCE HUMAN SERVICES INTERNSHIP

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of COUN 90, AODS 90, and COUN 87. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an interview, placement and verification of employment because intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Counseling Occupational Work Experience Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship placement; and supervised employment of students that extends to the job site classroom learning that relates to the students' educational or occupational goal in Human Services. Students eligible for internships will have declared a major, have completed courses in their major, or have acquired a high level of skill in Human Services, and are ready for

on-the-job experience in a paid position. Students will acquire new knowledge, skills, and abilities to prepare for a career in Human Services.
16 Units Total (WrxEx only)

COUN 162.1 CAREER ASSESSMENT AND RESEARCH

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Overview of the role of assessment and career research in the development of a career plan. Emphasis is on interest and personality testing, values clarification, skills assessment and career information research skills.

COUN 270 INTRODUCTION TO COLLEGE

0.5 Unit/0.5 hour lecture. P/NP Only.
Description: An introduction to Santa Rosa Junior College that includes programs, services, policies, degrees, certificates, transfer requirements, and college culture. Focus will be on strategies needed for academic success and the development of an academic plan.

COUN 355 COLLEGE PREPARATION SKILLS

1-3 Units/Up to 3 hours lecture. Grade or P/NP. Recommended: Course Eligibility for CSKLS 313.
Description: This course is designed to assist students in developing their skills to prepare for college. This course will include the following topics: study skills, memory and concentration techniques, lecture and note taking strategies, textbook reading for college, test taking, life and time management, learning styles, personal and educational values and goals, health and communicating effectively with instructors.

COUN 390 TRANSITION TO COLLEGE FOR FIRST-GENERATION COLLEGE STUDENTS

0.25 Unit/0.75 hour laboratory. P/NP Only.
Description: Provides a basic review of differences between high school and college that focuses on identifying challenges and developing strategies to help first-generation college students successfully transition to college culture.

CULINARY ARTS (CUL)

CUL 98 INDEPENDENT STUDY IN CULINARY ARTS

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring Faculty, Department Chair, and Supervising Administrator.
Transferability: CSU.
Description: Special projects by arrangement to provide for independent study and enriched academic experience for continuing and advanced students.

CUL 99I CULINARY ARTS OCCUPATIONAL WORK EXPERIENCE INTERNSHIP

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of CUL 250, CUL 250.1 and CUL 256.10. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an application, interview, placement and verification of employment because intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Culinary Occupational Work Experience Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship placement; and supervised employment of students that extends to the job site classroom learning that relates to the students' educational or occupational goal in Culinary Arts: Restaurant Management. Students eligible for internships will have declared a major, have completed courses in their major, or have acquired a high level of skill in their discipline, and are ready for on-the-job experience in a paid position (75 hours/per unit). Students will acquire new knowledge, skills, and abilities to prepare for a career in Culinary Arts: Restaurant Management.
16 Units Total (WrxEx only)

CUL 222 A CULINARY TOUR OF SONOMA COUNTY

1.5 Units/1.5 hours lecture. Grade or P/NP.
Description: Introduction to regionally based cuisine, focusing on the bountiful array of foods grown and produced in Sonoma County. Through lectures and field trips, students make a connection to Sonoma County's food and the people who produce it.

CUL 250 SANITATION AND SAFETY

1 Unit/1 hour lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: The basic principles of food safety and sanitation and the application of these principles in a food service operation. Includes instruction on sanitation regulations and personal hygiene, contamination sources, microorganisms and conditions for growth, proper food handling techniques and storage, development of a comprehensive cleaning and sanitizing program to prevent foodborne illnesses, and basic concepts of workplace safety. Upon completion students will be prepared to take a nationally recognized exam.

CUL 250.1 CULINARY ARTS SURVEY

1 Unit/1 hour lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and CSKLS 372.
Description: Introduction to fundamentals of the culinary arts, including culinary history, terminology, culinary mathematics and food anthropology.

CUL 250.2 CAREERS IN THE FOOD AND BEVERAGE INDUSTRY

1 Unit/1 hour lecture. Grade Only. Prerequisite: Course completion of CUL 250 and CUL 250.1. Recommended: Eligibility for ENGL 100 or ESL 100. AND Course Completion of CUL 253.1, or CUL 254, or CUL 256..
Description: This course provides the job seeker with tools for the development of a career plan in the culinary arts and related fields. Students will research professional roles, and identify essential skills, responsibilities and opportunities in the various fields of food and beverage production, service, operations and management.

CUL 250.3 PROFESSIONAL PLATE PRESENTATION

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of CUL 254.
Description: This course presents theory, demonstrates techniques, and directs students in plating and presenting food.

CUL 252.3 KNIFE SKILLS

2 Units/1.75 hours lecture, 6.25 hours laboratory for 10 weeks. Grade Only. Prerequisite: Course Completion or Current Enrollment in CUL 250 or DIET 50.
Description: Introduction to the fundamental theory, techniques, and practice of professional knife skills, with an emphasis on precision and production cuts.

CUL 252.14 FUNDAMENTALS OF GARDE MANGER

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade Only. Prerequisite: Course Completion or Concurrent Enrollment in CUL 250 (or DIET 50), and CUL 250.1, and CUL 252.3 and CUL 253.6 (or formerly CUL 253.1).
Description: Provides cold kitchen fundamentals, including equipment, sanitation and safety, production, salads, emulsified and non-emulsified dressings, sandwiches, cold sauces, salad condiments. Emphasis is on speed, timing, and teamwork.

CUL 253A CULINARY CAFE 1

(Formerly CUL 253.2) 6 Units/3 hours lecture, 9.5 hours laboratory. Grade Only. Prerequisite: Course Completion of CUL 252.14 (or formerly CUL 252.13) and CUL 253.7 (or formerly CUL 253.5). Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Fundamentals of commercial food preparation and restaurant operations. Students rotate through stations in the student-run Culinary Café and Bakery, developing skills in the preparation and service of salads, soups, pizzas, sandwiches, entrees, side dishes, table service, and ware washing.

CUL 253B CULINARY CAFE 2

(Formerly CUL 253.3) 6 Units/3 hours lecture, 9.5 hours laboratory. Grade Only. Prerequisite: Course Completion of CUL 253A. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Provides further hands-on experience in a professional kitchen. Students assume responsibilities of managing, mentoring, and instructing fellow students in the student-run Culinary Café and Bakery, developing skills in the preparation and service of salads, soups, pizzas, sandwiches, entrees, side dishes, table service, ware washing, and management.

CUL 253.6 PROFESSIONAL COOKING BASICS

3 Units/1.5 hours lecture, 4.5 hours laboratory. Grade Only. Prerequisite: Course Completion or Concurrent Enrollment in CUL 250 (or DIET 50) and CUL 250.1 and CUL 252.3. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Under supervision of chef instructor, students practice introductory cooking techniques as they apply to vegetables, legumes, grains, pasta, meat, fish, and poultry. Includes preparing mise en place for stations in a professional restaurant environment.

CUL 253.7 PROFESSIONAL MEAT AND SAUCE PREPARATION

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade Only. Prerequisite: Course Completion or Concurrent Enrollment in CUL 250, CUL 250.1, CUL 252.3 and CUL 253.6 (or formerly CUL 253.1); OR Course Completion or Concurrent Enrollment in DIET 50, CUL 250.1, CUL 252.3 and CUL 253.6 (or formerly CUL 253.1).
Description: A practical course focusing on stocks, soups, and sauces and the identification and fabrication of meats, poultry, fish, and shellfish. Includes further development of the student's knife skills. Industry standards of sanitation and safety are implemented.

CUL 254 INTRODUCTION TO BAKING AND PASTRY

4 Units/2 hours lecture, 6 hours laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in CUL 250 and CUL 250.1 and CUL 252.3 OR Course Completion or Current Enrollment in DIET 50 and CUL 250.1 and CUL 252.3. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Introduction to the fundamental skills, concepts, and techniques of baking and pastry for the commercial kitchen. Precise instruction on measuring, preparation, basic formulas, and conversion principles.

CUL 254.4 PURCHASING AND BAKESHOP MANAGEMENT

1 Unit/1 hour lecture. Grade Only. Prerequisite: Course Completion of CUL 254. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Introduction to basic bakeshop management procedures including labor, equipment, purchasing, receiving, and inventory control. Students will use the Culinary Cafe retail bakery model for menu planning and cost analysis.

CUL 255 PRODUCTION BAKING

5 Units/2 hours lecture, 9 hours laboratory. Grade Only. Prerequisite: Course Completion of CUL 254.
Description: Building on introductory baking skills, students rotate through stations of a student-run bakery, developing skills in yeast breads, plated desserts, and other baked goods for retail sale.

CUL 255.1 SPECIALTY PRODUCTION BAKING

4 Units/2 hours lecture, 7 hours laboratory. Grade Only. Prerequisite: Course Completion of CUL 254.
Description: Provides further hands-on experience in production baking. Building on introductory baking skills, students rotate through stations of a student-run bakery, developing skills in breakfast pastries, cakes, yeast breads, and other baked goods for retail sale.

CUL 256 FRONT HOUSE OPERATIONS

4.5 Units/1.75 hours lecture, 8.25 hours laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in CUL 250 or DIET 50. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Age 18 or older
Description: Development of Front House skills, including table service, large party service, wine pairing and service, and P.O.S. (Point of Sale) system within a full service restaurant environment.

CUL 256.3 INTRODUCTION TO FOOD AND BEVERAGE OPERATIONS

1 Unit/1 hour lecture. Grade Only.
Description: Provides an introduction to the management of food and beverage operations in a variety of environments, including hotels, restaurants and catering businesses. Introduces principles of revenue, profit and cost controls; employee recruiting and training; menu planning and food production; and sales and marketing.

CUL 256.5 WINE APPRECIATION

1.5 Units/1.5 hours lecture, 0.5 hour laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Age 21 or older
Description: Through tasting, the student will develop an appreciation of different types of wine, including varietal characteristics and other components, in order to understand the role of wine in professional food and beverage operations.

CUL 256.8 BEVERAGE MANAGEMENT

1 Unit/1 hour lecture. Grade Only.
Description: This course is designed to provide the practical knowledge needed to manage a restaurant bar or beverage operation.

CUL 256.9 INTRODUCTION TO WINE IN THE RESTAURANT

1 Unit/1 hour lecture. Grade Only.
Description: This course teaches successful integration of wine sales and service into restaurant operations.

CUL 256.10 RESTAURANT OPERATIONS

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Eligibility for MATH 150A.
Description: Theories and practices for restaurant management, including restaurant finances, cost control, menu development, human resources and legal issues, guest service essentials, hiring, training, supervision, and alcoholic beverage service and standards.

CUL 256.11 WINE AND FOOD PAIRING

1.5 Units/1.25 hours lecture, 0.75 hour laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be age 18 or older.
Description: Food and wine pairing in professional food service operations. Through formal tasting, cooking, and lectures, students refine their sensory abilities to identify complementary ingredients in food and wine and investigate the "marriage" of food and wines. Includes in-class food and wine tasting.

CUL 261.1 WEDDING CAKE BAKING AND ASSEMBLY

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Experienced pastry chef presents theory, demonstrates techniques, and instructs students through hands-on class. Course covers traditional and modern baking and decorating techniques as applied to regional and global wedding cake work.

CUL 261.2 FANCY CAKES: CHOCOLATE, MARZIPAN, & ROLLED FONDANT

(Formerly CUL 260.3) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional pastry chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international fancy cake work.

CUL 261.3 HOLIDAY CAKE BAKING

(Formerly CUL 260.32) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional pastry chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international holiday cake baking.

CUL 262.1 ARTISAN BREAD BAKING

(Formerly CUL 260.15) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international artisan bread work.

CUL 262.2 SOURDOUGH BREADS

(Formerly CUL 260.16) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international sourdough breads.

CUL 262.3 PIZZA AND FOCACCIA

0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international pizzas and focaccias.

CUL 262.4 WHOLE GRAIN BREADS

(Formerly CUL 260.20) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international whole grain breads.

CUL 262.5 ENRICHED YEAST BREADS

(Formerly CUL 260.17) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international enriched breads.

CUL 262.6 HOLIDAY YEAST BREADS

(Formerly CUL 260.18) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international holiday breads.

CUL 262.7 BRUNCH PASTRIES

0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Experienced pastry chef presents theory, demonstrates techniques, and instructs students through hands-on class. Course covers traditional and modern brunch baking techniques such as: croissant, Danish, quiche, muffins and tea breads, as applied to regional and global brunch pastry work.

CUL 263.1 SEASONAL PIE BAKING

(Formerly CUL 260.25) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional pastry chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international seasonal pie baking.

CUL 263.2 HOLIDAY PIE BAKING

(Formerly CUL 260.34) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional pastry chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international holiday pie baking.

CUL 263.3 SEASONAL TART BAKING

(Formerly CUL 260.26) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional pastry chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international seasonal tart baking.

CUL 263.4 HOLIDAY TART BAKING

(Formerly CUL 260.33) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional pastry chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international holiday tart baking.

CUL 263.5 HOLIDAY COOKIE BAKING

(Formerly CUL 260.31) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional pastry chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international holiday cookie baking.

CUL 264.1 ARTISAN CHOCOLATES

0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Experienced pastry chef presents theory, demonstrates techniques, and instructs students through hands-on class. Course covers traditional and modern chocolate techniques as applied to regional and global chocolate work.

CUL 264.2 HOLIDAY CANDY MAKING

(Formerly CUL 260.36) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional pastry chef presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern baking techniques as applied to gourmet, regional, national, and international holiday candy making.

CUL 264.3 ICE CREAM, SORBET AND FROZEN DESSERTS

0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Experienced pastry chef presents theory, demonstrates techniques, and instructs students through hands-on class. Course covers traditional and modern ice cream and sorbet techniques as applied to regional and global frozen dessert work.

CUL 264.4 GLUTEN-FREE BAKING

0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Experienced pastry chef presents theory, demonstrates techniques, and instructs students through hands-on class. Course covers traditional and modern gluten-free baking techniques as applied to regional and

global gluten-free baked goods. Please Note: The class is not taught in a gluten-free facility.

CUL 270.2 PROFESSIONAL TECHNIQUES: GRILLING

0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, supervises and critiques student preparations. Course covers historical and modern grilling techniques as applied to gourmet, regional, national and international cuisines.

CUL 270.3 PROFESSIONAL TECHNIQUES: SMOKING FOOD

0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, supervises and critiques student preparations. Course covers historical and modern smoking techniques as applied to gourmet, regional, national and international cuisines.

CUL 270.4 PROFESSIONAL TECHNIQUES: STOCK MAKING

0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, supervises and critiques student preparations. Course covers historical and modern stock making techniques as applied to gourmet, regional, national and international cuisines.

CUL 270.21 BASICS OF COOKING TECHNIQUES

0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, supervises and critiques student preparations. Course covers historical and modern basic cooking techniques as applied to gourmet, regional, national and international cuisines.

CUL 270.30 SONOMA WINE COUNTRY CUISINE

0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, supervises and critiques student preparations. Course covers historical and modern wine country cooking techniques as applied to gourmet, regional, national and international cuisines.

CUL 270.31 COOKING FROM YOUR CSA BOX

0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, supervises and critiques student preparations. Course covers historical and modern cooking techniques as applied to your Community Supported Agriculture (CSA) box.

CUL 275 SPECIAL TOPICS IN ETHNIC CUISINE

(Formerly CUL 287) 1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to a particular ethnic cuisine.

CUL 275.1 FRENCH CUISINE: PROVENCE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends, and customs as related to gourmet, regional, national, and international cuisines. Preparation of a variety of dishes common to the French regional cuisine of Provence.

CUL 275.2 FRENCH CUISINE: PARIS

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends, and customs as related to gourmet, regional, national, and international cuisines. Preparation of a variety of dishes common to the French regional cuisine of Paris.

CUL 275.3 FRENCH CUISINE: BURGUNDY

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends, and customs as related to gourmet, regional, national, and international cuisines. Preparation of a variety of dishes common to the French regional cuisine of Burgundy.

CUL 275.10 AMERICAN REGIONAL: CAJUN AND CREOLE CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Cajun and Creole cuisine.

CUL 275.11 AMERICAN REGIONAL: SOUTHERN CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Southern cuisine.

CUL 275.12 AMERICAN REGIONAL: HAWAIIAN CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Hawaiian cuisine.

CUL 275.15 JAPANESE CUISINE: TOKYO

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends, and customs as related to gourmet, regional, national, and international cuisines. Preparation of a variety of dishes common to the Japanese regional cuisine of Tokyo.

CUL 275.16 JAPANESE CUISINE: OSAKA

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends, and customs as related to gourmet, regional, national, and international cuisines. Preparation of a variety of dishes common to the Japanese regional cuisine of Osaka.

CUL 275.17 JAPANESE CUISINE: STREET FOOD

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends, and customs as related to gourmet, regional, national, and international cuisines. Preparation of a variety of dishes common to the Japanese regional cuisine specifically focusing on street foods.

CUL 275.31 PEKINESE CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Pekinese cuisine.

CUL 275.32 SHANGHAINESE CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Shanghainese cuisine.

CUL 275.33 HUNANESE CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends, and customs as related to gourmet, regional, national, and international cuisines. Preparation of a variety of dishes common to Hunanese cuisine.

CUL 275.34 CANTONESE CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Cantonese cuisine.

CUL 275.35 HONG KONGESE CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Hong Kongese cuisine.

CUL 275.36 MONGOLIAN CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Mongolian cuisine.

CUL 275.43 PHILIPPINE CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Philippine cuisine.

CUL 275.47 VIETNAMESE CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Vietnamese cuisine.

CUL 275.48 INDIAN CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Indian cuisine.

CUL 275.49 MALAYSIAN CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Malaysian cuisine.

CUL 275.64 GREEK CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends, and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Greek cuisine.

CUL 275.65 SPANISH CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Spanish cuisine.

CUL 275.66 MEXICAN CUISINE: OAXACAN

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends, and customs as related to gourmet, regional, national, and international cuisines. Preparation of a variety of dishes common to the Mexican regional cuisine of Oaxaca.

CUL 275.67 MEXICAN CUISINE: YUCATAN

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends, and customs as related to gourmet, regional, national, and international cuisines. Preparation of a variety of dishes common to the Mexican regional cuisine of the Yucatan peninsula.

CUL 275.68 MEXICAN CUISINE: VERACRUZ

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends, and customs as related to gourmet, regional, national, and international cuisines. Preparation of a variety of dishes common to the Mexican regional cuisine of Veracruz.

CUL 275.70 PUERTO RICAN CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Puerto Rican cuisine.

CUL 275.71 CUBAN CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends and customs as related to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to Cuban cuisine.

CUL 275.80 NORTHWESTERN ITALIAN CUISINES

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, supervises and critiques student preparations. Course covers historical and modern basic cooking techniques as applied to gourmet, regional,

national and international cuisines.Preparation of a variety of dishes common to the Northwestern Italian cuisines of Valle D'Aosta, Piedmont, Liguria.

CUL 275.81 NORTHERN ITALIAN CUISINES

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, supervises and critiques student preparations. Course covers historical and modern basic cooking techniques as applied to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to the Northern Italian cuisine of Lombardi.

CUL 275.82 NORTHEASTERN ITALIAN CUISINES

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, supervises and critiques student preparations. Course covers historical and modern basic cooking techniques as applied to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to the Northeastern Italian cuisines of Veneto, Trentio-Alto, Friuli-Venezia-Giulia.

CUL 275.83 SOUTHERN ITALIAN CUISINES

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, supervises and critiques student preparations. Course covers historical and modern basic cooking techniques as applied to gourmet, regional, national and international cuisines. Preparation of a variety of dishes common to the Southern Italian cuisines of Campania, Puglia, Calabria, Sicily, Sardinia.

CUL 275.84 EASTERN CENTRAL ITALIAN CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends, and customs as related to gourmet, regional, national, and international cuisines. Preparation of a variety of dishes common to Eastern Central Italian cuisines of Emilia-Romagna and Marche.

CUL 275.85 WESTERN CENTRAL ITALIAN CUISINE

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Cultural foods, historical food trends, and customs as related to gourmet, regional, national, and international cuisines. Preparation of a variety of dishes common to the Western Central Italian cuisines of Tuscany, Umbria, and Lazio.

CUL 286.1 VEGAN COOKING

(Formerly CUL 285.11) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Culinary professional presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern vegan cooking techniques as applied to gourmet, regional, national, and international plant-based dishes.

CUL 286.2 MARKET FRESH VEGETARIAN COOKING

(Formerly CUL 285.12) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Culinary professional presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern market fresh vegetarian cooking techniques as applied to gourmet, regional, national, and international plant-based dishes.

CUL 286.3 VEGETARIAN COOKING TECHNIQUES

(Formerly CUL 285.21) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Culinary professional presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern vegetarian cooking techniques as applied to gourmet, regional, national, and international plant-based dishes.

CUL 286.4 VEGETARIAN SOUPS, STOCKS, AND SAUCES

(Formerly CUL 285.22) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Culinary professional presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern cooking techniques of Vegetarian soups, stocks, and sauces as applied to gourmet, regional, national, and international plant-based dishes.

CUL 286.5 THE VEGETARIAN'S PANTRY

(Formerly CUL 285.23) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Culinary professional presents theory, demonstrates techniques, and supervises and critiques student preparations. Course covers historical and modern techniques of the vegetarian's pantry as applied to gourmet, regional, national, and international plant-based dishes.

CUL 286.6 VEGETARIAN FERMENTATION

0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, and instructs students through hands-on class. Course covers traditional and modern vegetarian fermentation techniques as applied to regional and global plant-based dishes.

CUL 286.7 VEGETARIAN PRESSURE COOKING

0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Professional chef presents theory, demonstrates techniques, and instructs students through hands-on class. Course covers traditional and modern vegetarian pressure cooking techniques as applied to regional and global plant-based dishes using a pressure cooker.

DANCE (DANCE)

DANCE 2 SURVEY OF DANCE HISTORY

(Formerly PE 40) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C1;IGETC area 3A*

Description: A historical survey of dance in Western civilization from ancient times through the 21st century. This course includes the significance of dance as ritual, social tradition and as an art form and examines the development of ballet, modern dance and other contemporary dance forms.

DANCE 3.1 CHOREOGRAPHY I

(Formerly PE 25.1) 2 Units/1 hour lecture, 3 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 16.1 and DANCE 10.1.
Transferability: CSU;UC.
Description: This course focuses on the fundamentals of the choreographic process and devices, emphasizing basic principles of space, time and energy. Students will choreograph dance studies applying a variety of choreographic approaches and techniques.

DANCE 10.1 INTRODUCTION TO DANCE MOVEMENT

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Introductory dance class designed for the student with no prior dance experience. Basic dance skills, techniques, and general dance vocabulary common to all genres of dance will be covered.

DANCE 10.2 INTRODUCTION TO DANCE GENRES: BALLET, MODERN, JAZZ

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Introductory dance class designed for the student with no dance training in the primary theatrical dance forms: ballet, modern, jazz. Will familiarize students with the unique attributes of each of these genre of dance classes and include units on each of the dance forms which will introduce the student to the basic skills, techniques, and vocabulary of these genres. Recommended prior to the beginning level in any of these dance forms.

DANCE 11.1 BALLET I

(Formerly PE 27.1) 1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 10.1.
Transferability: CSU;UC.
Description: This course for beginning (Level I) dancers covers beginning ballet principles and skills in the areas of technique, movement, vocabulary, style, and musicality. The course also includes basic ballet aesthetics and performance skills.

DANCE 11.2 BALLET II

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 11.1.
Transferability: CSU;UC.
Description: This course, for advanced-beginning (Level II) dancers with prior ballet experience, covers advanced-beginning (Level II) ballet principles and skills in the areas of technique, movement, vocabulary, style, and musicality. The course also includes ballet aesthetics and performance skills as they pertain to advanced-beginning (Level II) ballet.

DANCE 11.3 BALLET III

(Formerly PE 27.2) 1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 11.2.
Transferability: CSU;UC.
Description: This course, for low-intermediate (Level III) dancers with prior ballet experience, covers low-intermediate (Level III) ballet principles and skills in the areas of technique, movement, vocabulary, style, and musicality. The course also includes ballet aesthetics and emphasizes performance skills as they pertain to low-intermediate (Level III) ballet.

DANCE 11.4 BALLET IV

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 11.3. Limits on enrollment: By audition
Transferability: CSU;UC.
Description: This course, for intermediate (Level IV) dancers with prior ballet experience, covers intermediate (Level IV) ballet principles and skills in the areas of technique, movement, vocabulary, style, and musicality. The course also includes ballet aesthetics and emphasizes performance skills as they pertain to intermediate (Level IV) ballet.

DANCE 11.5 BALLET V

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 11.4. Limits on enrollment: By audition
Transferability: CSU;UC.
Description: This course, for high-intermediate (Level V) dancers with prior ballet experience, covers high-intermediate (Level V) ballet principles and skills in the areas of technique, movement, vocabulary, style, and musicality. The course also includes ballet aesthetics and emphasizes performance skills as they pertain to high-intermediate (Level V) ballet.

DANCE 11.6 BALLET VI

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 11.5. Limits on enrollment: By audition
Transferability: CSU;UC.
Description: This course, for advanced (Level VI) dancers with prior ballet experience, covers advanced (Level VI) ballet principles and skills in the areas of technique, movement, vocabulary, style, and musicality. The course also includes ballet aesthetics and emphasizes performance skills as they pertain to advanced (Level VI) ballet.

DANCE 13.1 JAZZ DANCE I

(Formerly PE 30.1A) 1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 10.1.
Transferability: CSU;UC.
Description: This course for beginning (Level I) dancers covers fundamentals of jazz dance in the areas of technique, movement vocabulary, terminology, rhythm and musicality. The course also covers beginning (Level I) jazz dance choreography and performance skills.

DANCE 13.2 JAZZ DANCE II

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 13.1.
Transferability: CSU;UC.
Description: This course, for advanced-beginning (Level II) dancers with prior jazz dance experience, focuses on advanced-beginning (Level II) jazz dance training in the areas of technique, movement vocabulary, terminology, rhythm and musicality. The course also includes advanced-beginning (Level II) jazz dance choreography and performance skills.

DANCE 13.3 JAZZ DANCE III

(Formerly PE 30.2) 1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 13.2.
Transferability: CSU;UC.
Description: This course for low- intermediate (Level III) dancers focuses on low- intermediate (Level III) jazz dance training in the areas of technique, movement vocabulary, terminology, rhythm and musicality. The course also includes experiences in jazz dance choreography and emphasizes performance skills. May include a performance in a dance concert.

DANCE 13.4 JAZZ DANCE IV

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 13.3.
Transferability: CSU;UC.
Description: This course for intermediate (Level IV) dancers focuses on intermediate jazz dance training in the areas of technique, movement vocabulary, terminology, rhythm and musicality. The course also emphasizes jazz dance choreography and emphasizes performance skills. May include a performance in a dance concert.

DANCE 13.5 JAZZ DANCE V

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 13.4.
Transferability: CSU;UC.
Description: This course for high-intermediate (Level V) dancers focuses on high-intermediate (Level V) jazz dance training in the areas of technique, movement vocabulary, terminology, rhythm and musicality. The course also emphasizes jazz dance choreography and emphasizes performance skills. May include a performance in a dance concert.

DANCE 13.6 JAZZ DANCE VI

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 13.5.
Transferability: CSU;UC.
Description: This course for advanced (Level VI) dancers focuses on advanced (Level VI) jazz dance training in the areas of technique, movement vocabulary, terminology, rhythm and musicality. The course also emphasizes jazz dance choreography and emphasizes performance skills. May include a performance in a dance concert.

DANCE 14.1 LYRICAL DANCE I

(Formerly DANCE 14) 1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 10.2.
Transferability: CSU;UC.
Description: Lyrical dance draws from ballet, modern, jazz, and contemporary techniques. This beginning (Level I)

course follows a dance class format including center warm-ups, progressions, and combinations. The choreography will focus on clearly displayed emotional moods and fast-moving choreographic strategies, with an emphasis on innovation and stylized movement.

DANCE 14.2 LYRICAL DANCE II

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 14.1.
Transferability: CSU;UC.
Description: Lyrical dance draws from ballet, modern, jazz, and contemporary techniques. This Level II course follows a dance class format including center warm-ups, progressions, and combinations. The choreography focuses on interpretation of the mood of the music or the lyrics of the songs.

DANCE 14.3 LYRICAL DANCE III

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 11.2 and Course Completion of DANCE 11.2 and Course Completion of DANCE 11.2 and Course Completion of DANCE 13.2 (or PE 30.1B)Course Completion of DANCE 13.2 (or PE 30.1B)Course Completion of DANCE 13.2 (or PE 30.1B).
Transferability: CSU;UC.
Description: Lyrical dance draws from ballet, modern, jazz, and contemporary techniques. This level III course follows a dance class format including center warm-ups, progressions, and combinations. The choreography will focus on clearly displayed emotional moods and fast-moving choreographic strategies, with an emphasis on innovation and stylized movement.

DANCE 14.4 LYRICAL DANCE IV

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 14.3Course Completion of DANCE 14.3Course Completion of DANCE 14.3Course Completion of DANCE 14.3.
Transferability: CSU;UC.
Description: Lyrical dance draws from ballet, modern, jazz, and contemporary techniques. This Level IV course follows a dance class format including center warm-ups, progressions, and combinations. The choreography will focus on clearly displayed emotional moods and fast-moving choreographic strategies, with an emphasis on innovation and stylized movement.

DANCE 16.1 MODERN DANCE I

(Formerly PE 28.1) 1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 10.2.
Transferability: CSU;UC.
Description: This course is for beginning (Level I) dancers with limited modern dance training. Emphasis is on beginning (Level I) modern dance skills in the areas of technique and movement vocabulary, as well as the use of space, time, and energy. This course will include basic modern dance improvisation, choreography, and performance skills.

DANCE 16.2 MODERN DANCE II

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 16.1.
Transferability: CSU;UC.
Description: This course is for advanced- beginning (Level II) dancers with some prior modern dance training, and

emphasizes advanced-beginning (Level II) modern dance skills in the areas of technique and movement vocabulary, and the use of space, time, and energy. This course also includes advanced-beginning (Level II) modern dance improvisation, choreography, and performance skills.

DANCE 16.3 MODERN DANCE III

(Formerly PE 28.2) 1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 16.2Course Completion of DANCE 16.2.
Transferability: CSU;UC.
Description: This course is for low- intermediate (Level III) level dancers and covers low- intermediate (Level III) modern dance skills in the areas of technique and movement vocabulary. Also includes the use of space, time, and energy. This course also includes improvisation, experiences in choreography, and a focus on performance skills.

DANCE 16.4 MODERN DANCE IV

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 16.3.
Transferability: CSU;UC.
Description: This course for intermediate (Level IV) dancers covers intermediate (Level IV) modern dance skills in the areas of technique and movement vocabulary as well as the use of space, time, and energy. The course also includes improvisation, experiences in choreography, and a focus on refinement of performance skills.

DANCE 16.5 MODERN DANCE V

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 16.4Course Completion of DANCE 16.4Course Completion of DANCE 16.4.
Transferability: CSU;UC.
Description: This course for high- intermediate (Level V) dancers covers high- intermediate (Level V) modern dance skills in the areas of technique and movement vocabulary as well as the use of space, time, and energy. The course also includes improvisation, experiences in choreography, and a focus on refinement of performance skills.

DANCE 16.6 MODERN DANCE VI

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 16.5. Limits on enrollment: By audition
Transferability: CSU;UC.
Description: This course for advanced (Level VI) dancers covers advanced (Level VI) modern dance skills in the areas of technique and movement vocabulary as well as the use of space, time, and energy. The course also includes improvisation, experiences in choreography, and a focus on refinement of performance skills.

DANCE 21.1 HIP HOP/FUNK I

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 10.1.
Transferability: CSU;UC.
Description: This course will introduce students to the fundamentals (Level I) of the hip hop/funk dance style derived from the current dance vernacular and culture. Classes will include warm-up exercises, isolations, floor stretches, and strengthening specific to the hip hop/funk style of dance. This course will also include locomotor movements ("across-the-floor") and center combinations.

DANCE 21.2 HIP HOP/FUNK II

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 21.1.
Transferability: CSU;UC.
Description: This advanced-beginning (Level II) hip hop/ funk course will allow students to continue the study of hip hop/funk dance as it applies to technique, movement vocabulary, terminology, rhythm and musicality. This class incorporates styles and choreography used in the current dance vernacular and culture.

DANCE 21.3 HIP HOP/FUNK III

(Formerly PE 59.2) 1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 21.2.
Transferability: CSU;UC.
Description: This low-intermediate (Level III) hip hop/ funk course will allow students to continue the study of hip hop/funk dance as it applies to technique, movement vocabulary, terminology, rhythm and musicality. This class incorporates styles and choreography used in the current dance vernacular and culture.

DANCE 21.4 HIP HOP/FUNK IV

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 21.3.
Transferability: CSU;UC.
Description: This intermediate (Level IV) hip hop/ funk course will allow students to continue the study of hip hop/funk dance as it applies to technique, movement vocabulary, terminology, rhythm and musicality. This class incorporates styles and choreography used in the current dance vernacular and culture.

DANCE 21.5 HIP HOP/FUNK V

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 21.4. Limits on enrollment: By Audition
Transferability: CSU;UC.
Description: This high- intermediate (Level V) hip hop/funk course will allow students to continue the study of hip hop/funk dance as it applies to technique, movement vocabulary, terminology, rhythm and musicality. This class incorporates styles and choreography used in the current dance vernacular and culture.

DANCE 21.6 HIP HOP/FUNK VI

1.5 Units/0.75 hour lecture, 2.25 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 21.5. Limits on enrollment: By Audition
Transferability: CSU;UC.
Description: This advanced (Level VI) hip hop/funk course will allow students to continue the study of hip hop/funk dance as it applies to technique, movement vocabulary, terminology, rhythm and musicality. This class incorporates styles and choreography used in the current dance vernacular and culture.

DANCE 27 DANCE PRODUCTION: EXPERIENCE

(Formerly PE 31.2) 2 Units/6 hours laboratory. Grade or P/NP. Prerequisite: Concurrent Enrollment in THAR 11.8. Recommended: Course Completion of DANCE 11.3, DANCE 13.3, DANCE 16.3 OR DANCE 21.3. Limits on enrollment: By Audition
Transferability: CSU;UC.
Description: In this course designed for intermediate to advanced dancers, students will rehearse and prepare to perform faculty and student-choreographed dances for the annual dance performance. The focus is on developing technical and performance skills, as well as a professional work ethic in relation to rehearsing and practicing

choreography. The course will serve as an introduction to the pre-production facets of dance production. Intended for dancers who have not previously performed in the SRJC annual dance performance.
4 Enrollments Total

DANCE 28 CHOREOGRAPHY FOR PERFORMANCE

(Formerly PE 31.3) 2 Units/6 hours laboratory. Grade or P/NP. Prerequisite: Concurrent Enrollment in THAR 11.8. Recommended: Course Completion of DANCE 3.1 and DANCE 27. Limits on enrollment: By audition
Transferability: CSU;UC.
Description: The purpose of this course is to give intermediate to advanced dance students the opportunity to develop choreography from initial concept through completion and performance. Students will conduct rehearsals, receive feedback on choreography, show their work, and prepare to present dances in the annual dance production. Students in this course may also perform in dances choreographed by fellow students.
4 Enrollments Total

DANCE 29 DANCE PERFORMANCE AND TOURING COMPANY

2 Units/0.5 hour lecture, 2.5 hours laboratory, 2 hours by arrangement. Grade or P/NP. Recommended: Course Completion of DANCE 11.3, DANCE 13.3, DANCE 16.3 OR DANCE 21.3. For choreographers completion of DANCE 3.1. Limits on enrollment: By Audition Only
Transferability: CSU;UC.
Description: For the intermediate through advanced dance student, the Dance Performance and Touring Company class provides an experience of dancing and touring with a pre-professional dance company. Collaboratively the faculty and class/company members create a short theme-based performance, designed to increase audience appreciation of dance as an art form. Students develop their own choreography and perform both student and faculty pieces in a variety of venues focusing on performance in K-12 settings and community dance performances.

DANCE 32 DANCE REPERTORY

(Formerly DANCE 72) 1.5 Units/4.5 hours laboratory. Grade or P/NP. Limits on enrollment: By Audition
Transferability: CSU;UC.
Description: In this class, intermediate through advanced dancers will rehearse and practice one or more faculty-choreographed concert pieces. Each piece may be a work from the repertory of the choreographer or may be a new work set on the dancers.
4 Enrollments Total

DANCE 37.1 BALLROOM DANCE I

1 Unit/2 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 10.1.
Transferability: CSU;UC.
Description: This course establishes a solid foundation in ballroom dance technique and basic skills. Dances may include: foxtrot, waltz, swing, and cha cha, with possible introduction to other ballroom dances and/or Latin dances.

DANCE 37.2 BALLROOM DANCE II

1 Unit/2 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 37.1.
Transferability: CSU;UC.
Description: A continuation of the fundamentals of social ballroom dance. Presentation of skills, technique and

step patterns of greater complexity in foxtrot, waltz, cha cha and swing. Introduction of the basic skills and patterns of rumba, samba, tango, and Viennese waltz. May include performance in a dance concert.

DANCE 40 INTRODUCTION TO FOLK DANCE

(Formerly PE 26.1) 1 Unit/2 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 10.1.
Transferability: CSU;UC.
Description: The study of basic rhythms, movements, and step patterns while learning a beginning folk dance repertoire.

DANCE 88.1 LATIN DANCE I

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 10.1.
Transferability: CSU.
Description: This course establishes basic knowledge of Latin dances. Practice of basic Salsa, Bachata, Meringue, Cha Cha and other Latin dance techniques will be covered.

DANCE 88.2 LATIN DANCE II

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 88.1.
Transferability: CSU.
Description: This course establishes an intermediate level knowledge of Latin dances. Practice of intermediate level Salsa, Bachata, Meringue, Cha Cha and other Latin dance techniques will be covered.

DANCE 88.3 LATIN DANCE III

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 88.2.
Transferability: CSU.
Description: This course establishes a high-intermediate level knowledge of Latin Dances. Practice of high-intermediate level Salsa, Bachata, Meringue, Cha Cha and other Latin dance techniques will be covered.

DANCE 88.4 LATIN DANCE IV

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Course Completion of DANCE 88.3.
Transferability: CSU.
Description: This course establishes an advanced level knowledge of Latin Dances. Practice of advanced level Salsa, Bachata, Meringue, Cha Cha and other Latin dance techniques will be covered.

DANCE 150 TEACHING DANCE TECHNIQUES

1 Unit/3 hours laboratory. Grade or P/NP. Limits on enrollment: Students enrolling in this class must have prior approval from the supervising faculty member.
Description: The course will cover the fundamental philosophies, techniques and methods for developing progressions and programs in dance instruction. Special attention will be how to successfully assist an instructor in a dance technique class in order to optimize learning experiences. Student will assist faculty in a classroom environment for a semester.

DENTAL EDUCATION - ASSISTING (DA)

DA 60 APPLIED DENTAL SCIENCE

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in DE 51. Limits on enrollment: Acceptance into an Allied Dental Program

Transferability: CSU.

Description: The study of dental terminology, basic anatomy of the oral cavity, dental anatomy and physiology, tooth morphology, classifications of cavities and documenting conditions of the teeth. The content of this course will be taught through a combined lecture and laboratory experience. Emphasis is placed on intraoral and extraoral landmarks, restorative documentation and tooth morphology.

DA 61 INTRODUCTION TO CHAIRSIDE DENTAL ASSISTING

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in DE 50 and DA 60. Limits on enrollment: Acceptance to Allied Dental Program

Transferability: CSU.

Description: Introduction to the role of the chairside dental assistant, preparing the patient for dental treatment, positioning of the patient, operator, and assistant, for four-handed and six-handed dentistry. Obtaining patient health history and vital signs, treatment planning and data gathering and medical emergencies. Instrument grasps/transfers, triplex syringe use, oral evacuation and retraction. Identification and use of hand instruments, equipment maintenance, tub and tray setups.

DA 62 INTRODUCTION TO DENTAL PROCEDURES

3 Units/2 hours lecture, 4 hours laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in DE 51. Limits on enrollment: Acceptance to Allied Dental Program

Transferability: CSU.

Description: Course focuses on clinical dental assisting skills and responsibilities for the clinical area of the dental office. Covers topical anesthetic placement and the indications and contraindications of use; common medical emergencies in dental offices and protocols for prevention and management; instrument and equipment identification, their use and maintenance; properties of dental materials; restorative procedures that include amalgam, composite and bonding, crown and bridge preparation and delivery, types and care of removable appliances.

DA 63 DENTAL SPECIALTIES

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of DA 61 and DA 62. Limits on enrollment: Acceptance to Allied Dental Program

Transferability: CSU.

Description: Instruction in assisting and instrumentation for the following specialties in dentistry: orthodontics, endodontics, periodontics, pediatric dentistry and oral maxillofacial surgery.

DA 64 ADVANCED DENTAL ASSISTING

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of DA 61 and DA 62. Limits on enrollment: Acceptance to Allied Dental Program

Transferability: CSU.

Description: The theory and development of the pre-clinical skills required for the Registered Dental Assistant (RDA). Students are required to meet standards of competency for each required RDA task. Preparation for the practical component of the California Registered Dental Assistant examination. Mannequins are used for most of the instruction.

DA 65 DENTAL SCIENCE

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of DA 60. Limits on enrollment: Acceptance to Allied Dental Program
Transferability: CSU.
Description: This course focuses on the etiology, recognition and prevention of dental disease. Topics include pharmacology, oral pathology, periodontology, and community oral health. Students will gain knowledge in the science and manipulation of alginate, gypsum, fluoride, sealants and teeth whitening products. The didactic and clinical components meet the requirements for a California State approved course in both coronal polish and pit and fissure sealants certificates.

DA 66.2 CLINICAL SEMINAR

(Formerly DA 66.1A) 1 Unit/1 hour lecture. Grade Only. Prerequisite: Course Completion of DA 62 and DE 55A; Concurrent Enrollment in DA 66.2L. Limits on enrollment: Acceptance to the Allied Dental Programs
Transferability: CSU.
Description: Weekly seminars to discuss, evaluate and review both clinical experiences and the RDA examination application process.

DA 66.2L CLINICAL PRACTICE

(Formerly DA 66.1B) 4.5 Units/15.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of DA 62 and DE 55A; Concurrent Enrollment in DA 66.2. Limits on enrollment: Acceptance to the Allied Dental Programs
Transferability: CSU.
Description: Clinical practice to perform entry level clinical skills in private, general and specialty dental offices in Sonoma County. Experience in chairside techniques with the emphasis on performance of the Registered Dental Assisting (RDA) tasks.

DA 67 DENTAL OFFICE MANAGEMENT

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of DA 60 AND DE 55A. Limits on enrollment: Acceptance to the Allied Dental Programs
Transferability: CSU.
Description: Instruction in the non-clinical functions which dental assistants are required to perform with emphasis on: financial arrangements, collection techniques, completing insurance forms, and maintaining current insurance records, office mail, dental office computer systems, group practice, inventory, marketing, purchasing, payroll, tax records, disbursements, and petty cash.

DA 69 CHAIRSIDE SKILLS WORKSHOP

0.5 Unit/0.25 hour lecture, 1 hour laboratory. P/NP Only. Prerequisite: Concurrent Enrollment in DE 51 and DA 60. Limits on enrollment: Acceptance into the Dental Assisting 22-Month Program
Transferability: CSU.
Description: This course is designed to develop skills in basic dental chairside techniques. Included are patient/operator positioning, cavity classifications and basic instrumentation. Required for those students accepted into the Dental Assisting 22-Month Program.

DENTAL EDUCATION - HYGIENE (DH)

DH 68 DENTAL HYGIENE-ELECTRONIC PATIENT RECORDS

0.5 Unit/0.5 hour lecture. Grade Only. Prerequisite: Concurrent Enrollment in DH 71A.
Transferability: CSU.
Description: Provides student hygienist with instruction in the use of electronic records and patient management systems utilizing dental clinical software. Students will input data which will include medical histories, clinical exams, dental charting, periodontal charting, and dental hygiene treatment plans. Word processing capabilities of the software will be used to create documents. Students will be instructed on accessing extra and intraoral images stored in the patient file.

DH 69 MEDICAL EMERGENCIES IN DENTAL PRACTICE

1 Unit/1 hour lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in DH 71A and DE 51. Limits on enrollment: Acceptance to Allied Dental Program
Transferability: CSU.
Description: This course provides the student with the basics in the prevention and management of medical emergencies in the dental practice. Emphasis is on the recognition of clinical signs and symptoms of emergencies and the prevention of emergency escalation. The management of medical emergencies is outlined along with drugs and equipment utilized in an emergency.

DH 70 DENTAL ANATOMY AND TOOTH MORPHOLOGY

2.5 Units/2 hours lecture, 2 hours laboratory. Grade Only. Prerequisite: Concurrent Enrollment in DH 71A. Limits on enrollment: Acceptance to the Allied Dental Programs
Transferability: CSU.
Description: The study of the dental terminology, tooth morphology, structures of the oral cavity, classification of cavities, and charting conditions of the teeth. Aspects related to dental hygiene care such as root morphology, restorative charting, occlusion, and dental anomalies are emphasized.

DH 71A CLINICAL DENTAL HYGIENE CARE AND THEORY 1

(Formerly DH 71) 5 Units/2 hours lecture, 9 hours laboratory. Grade Only. Prerequisite: Concurrent Enrollment in DH 70 AND Course Completion or Current Enrollment in DE 50 and DE 51 and DE 55A. Limits on enrollment: Acceptance into a Dental Allied Program
Transferability: CSU.
Description: Provides the student hygienist with a broad theoretical basis to perform clinical aspects of dental hygiene practice in the evolving profession of dental hygiene and the dental hygiene process of care. Infection control protocols established by the California Board of Dental Examiners and the Centers for Disease Control and Prevention will be implemented.

DH 71B CLINICAL DENTAL HYGIENE CARE AND THEORY 2

5 Units/2 hours lecture, 9 hours laboratory. Grade Only. Prerequisite: Course Completion of DH 71A; AND Concurrent Enrollment in DH 72 and DH 75 and DH 74 and DH 76; AND Course Completion or Current Enrollment in DE 55B.
Transferability: CSU.
Description: Application of the dental hygiene process of care guided by the human needs conceptual model to promote oral health and wellness. The course includes laboratory and clinical experiences in client assessments, problem identification (dental hygiene diagnosis), dental hygiene care planning, case presentation and

implementation of dental hygiene care (preventive and therapeutic procedures, oral health education). Evaluation of dental hygiene care/oral health goals attainment is also emphasized as an essential component of the dental hygiene process.

DH 71C CLINICAL DENTAL HYGIENE CARE AND THEORY 3

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of DH 71B and Concurrent Enrollment in DH 78.
Transferability: CSU.
Description: This course is designed for continuity of clinical application of the dental hygiene process for delivering client-centered care initiated in the previous clinical course. The course will consist of seminar and clinical experiences. Students will continue to develop skills by working with clients in the Santa Rosa Junior College Dental Clinic.

DH 71D CLINICAL DENTAL HYGIENE CARE AND THEORY 4

(Formerly DH 82) 7 Units/2 hours lecture, 15 hours laboratory. Grade Only. Prerequisite: Course Completion of DH 71C AND Concurrent Enrollment in DH 79 and DH 80.
Transferability: CSU.
Description: Scaling and root planing, the application of advanced instrumentation principles, and early self-assessment skills. Techniques in the use and interpretation of radiographs, infection control, and office procedures will continue to be developed. Students will continue to develop clinical skills by working with clients in the Santa Rosa Junior College dental clinic.

DH 71E CLINICAL DENTAL HYGIENE CARE AND THEORY 5

(Formerly DH 84) 7 Units/2 hours lecture, 15 hours laboratory. Grade Only. Prerequisite: Course Completion of DH 71D AND Concurrent Enrollment in DH 83 and DH 85.
Transferability: CSU.
Description: A seminar and clinical course designed to continue to expand and develop dental hygiene skills in preventive and maintenance therapy. Students will become proficient in scaling and root planning procedures, pain control, and gingival curettage.

DH 72 ORAL HEALTH EDUCATION

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of DH 70 AND Course Completion of DH 71A AND Concurrent Enrollment in DH 71B.
Transferability: CSU.
Description: Introduction to the educational theory and practice of oral hygiene care. The primary focus will be on educational techniques to assist individuals and groups in making informed decisions with regard to oral health promotion and disease prevention. Personal mechanical removal of bacterial plaque through use of toothbrushes and oral physiotherapy aids is emphasized.

DH 74 HEAD AND NECK ANATOMY, HISTOLOGY AND EMBRYOLOGY

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of DH 70. Limits on enrollment: Acceptance to Allied Dental Program
Transferability: CSU.
Description: This course emphasizes the structures of the head and neck. Specific focus will be placed on

knowledge necessary for clinical application. The histology and embryology components of the course deliver the foundation of knowledge necessary to understand pathology and developmental disturbances encountered in dentistry.

DH 75 PHARMACOLOGY FOR THE DENTAL HYGIENIST

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of DH 71A. Limits on enrollment: Acceptance into Allied Dental Program
Transferability: CSU.
Description: The clinical usage of the therapeutic agents used in the practice of dentistry. The indications, dosage, methods of administration, contraindications and side effects of these agents will be studied to give the student hygienist a foundation in the physical manifestations to be expected in drug administration.

DH 76 DENTAL MATERIALS FOR THE DENTAL HYGIENIST

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of DH 70 and DH 71A. Limits on enrollment: Acceptance to Allied Dental Program
Transferability: CSU.
Description: The study of the science and use of dental materials, where students will gain knowledge of the basic science, behavior, and manipulation of dental materials in a framework that enables adaptation to the rapidly evolving array of new dental materials and techniques in the professional arena.

DH 78 LOCAL ANESTHESIA/NITROUS OXIDE CONSCIOUS SEDATION

1 Unit/0.75 hour lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of DH 74 and DH 75. Limits on enrollment: Acceptance into the Allied Dental Program
Transferability: CSU.
Description: A course covering the techniques of pain control by the administration of local anesthetics and nitrous oxide/conscious sedation. The course will prepare the student for management of the more complex clinical client during advanced dental hygiene care procedures.

DH 79 PERIODONTICS FOR THE DENTAL HYGIENIST

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of DH 74 and Concurrent Enrollment in DH 80 and DH 71D.
Transferability: CSU.
Description: The study of the structural, functional, and environmental factors associated with the normal and diseased periodontium. An emphasis will be placed on the etiology, pathology, and therapeutic and preventive treatment modalities of periodontal disease.

DH 80 ORAL PATHOLOGY FOR THE DENTAL HYGIENIST

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of DH 74 and Concurrent Enrollment in DH 79. Limits on enrollment: Acceptance to the Allied Dental Programs. Students are accepted into a Dental Program through the application process and as a cohort and take courses in sequential order.
Transferability: CSU.
Description: This course is designed to provide an introduction to clinical and diagnostic general and oral pathology. Emphasis will be placed on the recognition of the presence of abnormalities. The student will gain foundational knowledge upon which to base a differential diagnosis of any lesion which is likely to be met in the general dental practice.

DH 81 COMMUNITY DENTAL HEALTH

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of DH 72.
Transferability: CSU.
Description: This course is designed to provide an insight into the opportunities for dental hygienists to work in community settings and public health. Students will learn the principles of public health through classroom and field experience. Students will participate in presentations in the field and in a community service learning experience.

DH 83 ETHICS, JURISPRUDENCE & PRACTICE MGMT FOR DENTAL HYGIENIST

2 Units/2 hours lecture. Grade Only. Prerequisite: Concurrent Enrollment in DH 71E (or DH 84).
Transferability: CSU.
Description: The study of jurisprudence, ethics, and practice management as related to dental hygiene care. A personal philosophy toward professional conduct, continuous quality improvement, self-assessment and peer evaluation is developed.

DH 85 ADVANCED PERIODONTAL DENTAL HYGIENE CARE

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of DH 79 and Concurrent Enrollment in DH 71E.
Transferability: CSU.
Description: Advanced principles of periodontology for the dental hygienist, including the role of the dental hygienist in identifying appropriate surgical modalities for treatment of periodontal diseases and providing post surgical specialized periodontal maintenance care.

DH 86 INTEGRATION OF DENTAL HYGIENE AND DENTISTRY

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of DH 76. Limits on enrollment: Acceptance to Allied Dental Program
Transferability: CSU.
Description: This course is designed to provide an overview of the various specialties of dentistry, to facilitate collaboration with dental and medical healthcare providers, to investigate advanced educational opportunities, to utilize resources for referrals, to understand the legalities of the professional practice of dental hygiene and to integrate all of these concepts into comprehensive patient care.

DENTAL EDUCATION (ASSISTING & HYGIENE) (DE)

DE 50 INTRODUCTION TO THE DENTAL PROFESSION

2 Units/2 hours lecture. Grade Only. Prerequisite: Concurrent Enrollment in DE 51. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Acceptance to the Allied Dental Programs
Transferability: CSU.
Description: An introduction to the field of dentistry and the educational requirements, roles and responsibilities of each member of the dental team, including the dentist, registered dental hygienist, and registered dental assistant. Legal and ethical concepts are introduced in this course.

DE 51 OCCUPATIONAL HEALTH AND SAFETY

2 Units/2 hours lecture. Grade Only. Prerequisite: Concurrent Enrollment in DE 50 and DE 55A. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Acceptance to the Allied Dental Programs
Transferability: CSU.
Description: The science and principles of current infection control protocol, dental office safety and accident prevention. Focus is on the Centers for Disease Control (CDC) Guidelines for Infection Control in Dentistry and the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard.

DE 55A INTRODUCTION TO DENTAL RADIOLOGY

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in DE 51. Limits on enrollment: Acceptance to Allied Dental Program
Transferability: CSU.
Description: Instruction in the basic principles of radiology including history, physics, characteristics, biological effects, equipment, film and digital imaging, infection control and safety. The techniques of film or sensor placement and exposure, mounting films and evaluation of images will be covered.

DE 55B DENTAL RADIOLOGY

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of DE 55A.
Transferability: CSU.
Description: Instruction in the advanced imaging techniques of intraoral and panoramic dental radiology. Emphasis is on evaluation and interpretation of intraoral and panoramic images utilizing recognition of anatomical landmarks, dental anatomy, restorations, and disease processes. Patient dental radiological services are provided by students after competency is demonstrated on manikins.

DIESEL/EQUIPMENT TECHNOLOGY (DET)

DET 156 CALIFORNIA COMMERCIAL TRUCK DRIVING LICENSE PREPARATION

2 Units/2 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: California commercial truck class "A" written license exam preparation. Includes driving techniques, air brake inspection and pre-trip inspection information. To complete the license requirements you must take the written exam and the driving test at the California DMV.

DET 179 DIESEL EQUIPMENT FOUNDATION AND SAFETY

(Formerly DET 80) 3 Units/2.25 hours lecture, 2.25 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of IED 190.
Description: Introduction to diesel powered equipment repair. The course is designed to be a foundation and safety course for the DET program. An overview of on and off highway equipment (i.e. agricultural, construction, public transportation and trucking equipment). Topics include: careers, employability skills, workplace practices, safety, personal protection equipment, basic first aid, tooling, lubricants, fasteners, bearings, seals, and lifting equipment.

DET 181 PREVENTIVE MAINTENANCE AND INSPECTION

(Formerly DET 81) 3 Units/2.25 hours lecture, 2.25 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Completion of DET 179.
Description: The study of preventive maintenance and inspection practices as related to diesel powered vehicles and machinery. Preventive maintenance inspections are practiced.

DET 182A DIESEL ENGINE SYSTEMS

(Formerly DET 82A) 3 Units/2.25 hours lecture, 2.25 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 AND Course Completion or Concurrent Enrollment in DET 179.
Description: The operating principles and overhaul of the heavy duty diesel engine and related systems. Course involves disassembly and reassembly of engines, using service manuals to inspect components and analyze component failures.

DET 182B DIESEL FUEL SYSTEMS

(Formerly DET 82B) 3 Units/2.25 hours lecture, 2.25 hours laboratory. Grade Only. Prerequisite: Course Completion of DET 182A. Recommended: Eligibility for ENGL 100 or ESL 100; and DET 179.
Description: An in-depth study of heavy duty diesel engine fuel and electronic control systems. Students perform service, maintenance and diagnosis of diesel engine fuel systems.

DET 184 MOBILE HYDRAULIC SYSTEMS

(Formerly DET 84) 3 Units/2.25 hours lecture, 2.25 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100; and Course Completion of DET 179 and IED 190.
Description: Study of the theory, application and component parts of hydraulic systems. Emphasizes fundamentals in inspection, troubleshooting and repair of hydraulic components commonly used in agricultural and construction equipment.

DET 185 HEAVY DUTY CHASSIS AND UNDERCARRIAGE SYSTEMS

(Formerly DET 85) 3 Units/2.25 hours lecture, 2.25 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of DET 179.
Description: The study of heavy-duty chassis and undercarriage systems including steering, braking, and suspension systems utilized on trucks, agricultural equipment and construction equipment.

DET 188 HEAVY-DUTY POWER TRAIN SYSTEMS

(Formerly DET 88) 3 Units/2.25 hours lecture, 2.25 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion or Concurrent Enrollment in DET 179.
Description: In depth study of heavy duty drivetrain. Course covers theory, operation, diagnosis, service and overhaul of clutches, manual transmissions and rear axle assemblies.

DET 189 HEAVY DUTY EQUIPMENT ELECTRICAL SYSTEMS

(Formerly DET 89) 3 Units/2.25 hours lecture, 2.25 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of DET 179.
Description: Principles of operation of electrical and electronic components and systems used in medium/heavy duty trucks, public transportation, construction and agricultural equipment. Introduction to electronic control systems.

DIETETIC TECHNOLOGY (DIET)

DIET 50 SANITATION AND SAFETY

2 Units/2 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Basic principles of sanitation and safety and the applications of these principles to a food service operation. Emphasis on the supervisor's responsibility to maintain a sanitary and safe work environment.

DIET 52 MANAGEMENT TRAINING TECHNIQUES

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Supervisorial responsibilities with emphasis on managing a food service operation, including employee selection, training, evaluation, grievance procedure, documentation and dismissal, scheduling, budgeting, writing and revising policies and procedures, and preparedness for review of kitchen operation by regulatory inspectors.

DIET 55 FOOD PRODUCTION MANAGEMENT

2 Units/2 hours lecture. Grade Only. Prerequisite: Completion of CSKLS 371 or higher (MATH) or qualifying placement. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: The control of food purchasing, receiving procedures, food production, inventories, storeroom issues and standardized recipes for quantity food production and service. Effective management of time and equipment, the responsibilities of the production supervisor are stressed.

DIET 55L FOOD PRODUCTION CLINICAL EXPERIENCE

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Completion of CSKLS 371 or higher (MATH) or qualifying placement. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Course covers knowledge and skills needed to evaluate and work effectively in different quantity food production and food service systems. Practical field experience in quantity food service is provided.

DIET 57 MODIFIED DIETS

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of FDNT 10.
Transferability: CSU.
Description: Review of normal nutrition and introduction to diet therapy. Application of these principles to provision of foods appropriate for diets modified to support various medical and surgical conditions. Includes clinical supervised field experience component.

DIET 70 INTRODUCTION TO NUTRITION, DIETETICS AND FOOD SERVICE

1 Unit/1 hour lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Professional roles, skills, responsibilities and opportunities in the fields of nutrition, dietetics and

food service management. Introduction to the history of the profession, related government agencies, scientific literature and resources, and professional code of ethics.

DIET 99I DIETETIC TECHNOLOGY OCCUPATIONAL WORK EXPERIENCE INTERNSHIP

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an interview, placement and verification of employment because intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Dietetic Technician Occupational Work Experience Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship assistance; and supervised employment of students that extends to the job site classroom learning that relates to the students' educational or occupational goal in Dietetic Technology. Students eligible for internships will have declared a major, have completed courses in their major, or have acquired a high level skill in their discipline, and are ready for on-the-job experience in a paid position. Students will acquire new knowledge, skills, and abilities to prepare for a career in Dietetic Technology.
16 Units Total (WrxEx only)

DIET 106.1 SUPERVISED FIELD EXPERIENCE FOR DIETETIC TECHNICIAN 1

4.5 Units/1 hour lecture, 11.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of DIET 70, DIET 50, DIET 57, DIET 176 and COUN 91; OR Course Completion of FDNT 70, DIET 50, DIET 57, DIET 176 and COUN 91.
Description: Application of nutrition and dietetics concepts to development of entry-level skills and competencies for the Registered Dietetic Technician, as required by the Accreditation Council for Education in Nutrition and Dietetics. The course includes supervised field experience in inpatient food and nutrition settings, including both acute care and long-term care.

DIET 106.2 SUPERVISED FIELD EXPERIENCE FOR DIETETIC TECHNICIAN 2

4.5 Units/1 hour lecture, 11.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of DIET 70, DIET 50, DIET 57, DIET 176 and COUN 91; OR Course Completion of FDNT 70, DIET 50, DIET 57, DIET 176 and COUN 91.
Description: Application of nutrition and dietetics concepts to development of entry-level skills for the Registered Dietetic Technician. The course includes supervised field experience in non-inpatient food and nutrition service programs as well as approved field experience in a rotation to complete training for entry level job skills, as required by the Accreditation Council for Education in Nutrition and Dietetics.

DIET 176 APPLIED NUTRITION THERAPY

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of FDNT 10.
Description: Entry-level skills for Dietetic Technician, Registered, working with nutrition screening, assessment, development of nutrition care plans and health-promoting client education and counseling. Includes health history screening, consideration of drug-nutrient interactions, lab values, anthropometric data, conventional and alternative medicine options.

DIET 191 COUNSELING AND GROUP FACILITATION SKILLS IN HEALTHCARE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This is a survey and practical application course of interview and counseling techniques appropriate for professionals in Nutrition, Fitness, and Health Sciences, with an emphasis on health promotion. Theoretical focuses include Client Centered approach, Motivational Interviewing, Transtheoretical Model of Behavior change, Acceptance Based Counseling and other theories of motivation.

DISABILITY RESOURCES DEPARTMENT (DRD)

DRD 313 SUCCESS STRATEGIES FOR PROMOTING MENTAL HEALTH

1 Unit/1 hour lecture. Grade or P/NP.
Description: This course is designed to promote the academic success of students with mental health conditions. Students will gain a basic understanding of common factors that contribute to mental health conditions, as well as strategies to improve emotional regulation, stress management, and self-advocacy.

DRD 314 SUCCESS STRATEGIES FOR STUDENTS WITH ACQUIRED BRAIN INJURIES

1 Unit/1 hour lecture. Grade or P/NP.
Description: This course is designed to help individuals with acquired brain injuries to improve their opportunities for successful academic, vocational and social integration. Students are provided with information to better understand the impact of brain injury on learning, relationships, and emotions. Strategies to improve memory, organization, stress management, communication, and problem solving are presented. The class is conducted in a format that includes lecture and group work.

DRD 352 STRESS MANAGEMENT FOR ACADEMIC SUCCESS

1 Unit/1 hour lecture. Grade or P/NP.
Description: This course will explore principles and techniques of stress management. It also includes topics specific to disability management.

DRD 363 INTRODUCTION TO CAREER DEVELOPMENT

3 Units/3 hours lecture. Grade or P/NP.
Description: This course addresses career planning and job search techniques, with an emphasis on career interests and values, labor market trends, job seeking and interview skills, and disability management in the work place.

DRD 368.1 COLLEGE SUCCESS 1: NOTETAKING AND TIME MANAGEMENT

(Formerly DRD 360.1) 1.5 Units/1.5 hours lecture. Grade or P/NP.
Description: This course provides opportunities for students to explore and practice organization, time management and note-taking skills. It also includes topics specific to the use of disability related services and campus resources.

DRD 368.2 COLLEGE SUCCESS 2: COMPREHENSION AND TEST TAKING STRATEGIES

(Formerly DRD 360.2) 1.5 Units/1.5 hours lecture. Grade or P/NP.
Description: This course provides opportunities to explore and practice concentration, memory, reading strategies, test preparation and test-taking strategies. It also includes topics specific to disability related services and campus resources.

DRD 370.1A INTRODUCTION TO COLLEGE AND CAREER PREPARATION 1

1.5 Units/1.5 hours lecture. Grade or P/NP.
Description: This course addresses career preparation strategies and resources for students with disabilities. In addition, students will identify opportunities for involvement in campus and community activities, and career technical education.

DRD 370.1B INTRODUCTION TO COLLEGE AND CAREER PREPARATION 2

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Course Completion of DRD 370.1A.
Description: This course addresses the development of a career goal and an academic plan for students with disabilities. In addition, students will learn about opportunities for involvement in campus activities and career technical education.

DRD 370.2A CAREER DEVELOPMENT AND WORK EXPERIENCE 1

1 Unit/1 hour lecture. Grade or P/NP. Prerequisite: Course Completion of DRD 370.1B.
Description: This course addresses identifying appropriate work experience opportunities, volunteer and paid, on and off campus for students with disabilities. In addition, students will be supported in attending campus, community, and career technical education opportunities and activities.

DRD 370.2B CAREER DEVELOPMENT AND WORK EXPERIENCE 2

1 Unit/1 hour lecture. Grade or P/NP. Prerequisite: Course Completion of DRD 370.2A.
Description: This course addresses the development of work experience and job search strategies for students with disabilities. In addition, students will be supported in participating in campus, community, and career technical education opportunities and activities.

DRD 370.3A TRANSITION TO EMPLOYMENT 1

1 Unit/1 hour lecture. Grade or P/NP. Prerequisite: Course Completion of DRD 370.2B.
Description: This course addresses the development of a plan for on-the-job support and disability management in the workplace for students with disabilities. In addition, students will initiate the planning of a campus and/or community event or activity.

DRD 370.3B TRANSITION TO EMPLOYMENT 2

1 Unit/1 hour lecture. Grade or P/NP. Prerequisite: Course Completion of DRD 370.3A.
Description: This course addresses students with disabilities transition to employment from college and the implementation of their plan for on-the-job supports. In addition, students will implement and host a campus or community event or activity.

DRD 390.2 COMMUNICATION SKILLS

1.5 Units/0.5 hour lecture, 3 hours laboratory. Grade or P/NP.
Description: This course will provide students with an overview of the communicative process and strategies for effective communication in daily life, especially focusing on school and workplace environments, as they relate to

individuals with disabilities. Students will identify and apply strategies that address the functional limitations of his or her disability.

DRD 390.3 SUCCESS AT WORK

2 Units/2 hours lecture. Grade or P/NP.
Description: This course provides students with an overview of the skills and knowledge an effective employee possesses. Course content includes information specific to the needs of an individual with a disability in the workplace. It is recommended that students who enroll in this course be currently employed or have a recent work history.

DRD 391 CAMPUS AND COMMUNITY RESOURCES

3 Units/3 hours lecture. Grade or P/NP.
Description: This course provides students with an overview of campus and community resources and activities that contribute to academic success for students with disabilities. Examples of such resources include: Disability Resources Department, Regional Center services, and Department of Rehabilitation services. This course will also address how students can safely and effectively access campus and community resources and activities.

DRD 700 LEARNING STRATEGIES

0 Unit/3 hours by arrangement. Non-Credit Course.
Description: This non-credit course is designed for students with disabilities who require specialized instruction and/or support to maximize their college success. Students may participate in a variety of individual and group instruction and/or other academic support activities.
Exempt From Repeat Provisions

DRD 705 COPING STRATEGIES FOR HEARING LOSS

0 Unit/2 hours laboratory. Non-Credit Course.
Description: This course provides education and support for adults with hearing loss. The course focuses on topics such as hearing technology (cochlear implants and hearing aids), community resources, and overcoming communication challenges.
Exempt From Repeat Provisions

DRD 761 JOB SEARCH STRATEGIES

(Formerly DRD 761B) 0 Unit/3 hours by arrangement. Non-Credit Course.
Description: This course provides exploration and application of job search strategies for students with disabilities.
Exempt From Repeat Provisions

DRD 784 ASSISTIVE TECHNOLOGY TRAINING CENTER LAB

(Formerly DRD 783) 0 Unit/2 hours by arrangement. Non-Credit Course.
Description: This course explores access and other technology for students with disabilities in a lab or classroom setting. Students may work independently, participate in group and/or individual instruction, structured workshops and other academic support activities after meeting with an Access Technology Specialist.
Exempt From Repeat Provisions

EARTH AND SPACE SCIENCE (ERTHS)

ERTHS 49 INDEPENDENT STUDY IN EARTH SCIENCES

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal (including a written description of project objectives and methods) by sponsoring faculty, Department Chair, and Supervising Administrator.
Transferability: CSU;UC.
Description: Independent study in an Earth Science or Astronomy related discipline by literature, field, or laboratory research. UC determines credit AFTER transfer; not counted for admission. (See a counselor for details.)

ERTHS 85.1 PEPPERWOOD NATURAL HISTORY: PHYSICAL ENVIRONMENT

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: A survey of the natural history of the Pepperwood Preserve, emphasizing earth sciences and native cultures (offered Fall semester only). Laboratory hours are primarily in the field and will include hiking over uneven terrain. This course (along with BIO/ERTHS 85.2) is a component of the Pepperwood Preserve Steward training program.

ERTHS 85.2 PEPPERWOOD NATURAL HISTORY- BIOTIC ENVIRONMENT

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: A survey of the natural history of the Pepperwood Preserve, emphasizing the flora, fauna, and ecology (offered Spring semester only). Laboratory hours are primarily in the field and will include hiking over uneven terrain. This course (along with BIO/ERTHS 85.1) is a component of the Pepperwood Preserve Steward training program.

ECONOMICS (ECON)

ECON 1 PRINCIPLES OF MACROECONOMICS

(Formerly ECON 1A) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of MATH 154, MATH 155, MATH 156, or higher, or MATH 15, or appropriate placement based on AB 705 mandates. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: ECON 202
GE: *AA/AS areas D,H;CSU area D;IGETC area 4*
Description: An introduction to macroeconomic concepts and principles of economic analysis. Topics include:

foundations of economic life, national income and employment, business cycles, money and banking, monetary and fiscal policy, economic growth and stability, international trade and the position of the U.S. within the context of the global economy.

ECON 2 PRINCIPLES OF MICROECONOMICS

(Formerly ECON 1B) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of MATH 154, MATH 155, MATH 156, or higher, or MATH 15, or appropriate placement based on AB 705 mandates.. Recommended: Course Eligibility for ENGL 1A.
Transferability: CSU;UC.
C-ID: ECON 201
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: Survey of microeconomic concepts, principles, and theory. Topics include: consumer demand, elasticity, business costs, revenues and profits, competitive market structures, and monopoly.

ECON 12 INTRODUCTION TO ECONOMICS AND THE ENVIRONMENT

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas D,H;CSU area D;IGETC area 4*
Description: An introduction to environmental studies emphasizing the interplay of ecology, economics, ethics and their translation to public policy. Topics include macroeconomic design characteristics and market failure as causes of environmental degradation; socio-ecological requirements for a sustainable society; and economic tools of analysis and incentive-based policy prescriptions for resolving problems of resource scarcity and environmental pollution. Includes perspectives from microeconomics, macroeconomics, and ecological economics. Also examines the role of policy in addressing environmental issues at the local, national, and global levels.

EDUCATION (EDUC)

EDUC 55 INTRODUCTION TO TEACHING

3.5 Units/3 hours lecture, 2.67 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Students must show proof of current TB test to enter off-site school classrooms.
Transferability: CSU.
C-ID: EDUC 200
Description: This course is designed to provide students interested in pursuing a teaching career in K-12 classrooms with theory and hands-on, practical experience working with children at local schools. Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, California's content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population. The fieldwork must be conducted in cooperation with at least one carefully selected and campus-approved certificated classroom teacher.

ELECTRONIC TECHNOLOGY (ELEC)

ELEC 51A FUNDAMENTALS OF ELECTRICITY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Eligibility for MATH 150ACourse Eligibility for MATH 150A.
Transferability: CSU.
Description: Basic physical principles as applied to direct and alternating current, basic circuits, units, components, and test equipment. Includes basic electronics. Electrical safety and energy conservation as applied to household and industrial appliances are evaluated.

ELEC 54A DIRECT AND ALTERNATING CURRENT THEORY

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Completion of ELEC 51A or Completion of an algebra-based Math course (MATH 150B, MATH 150, MATH 151, OR MATH 154 or higher (MATH)); See Student Success & Assessment Services for more information about the assessment process. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Introduction to electronic components and underlying physics concepts, electrical units, direct current (DC), DC circuit analysis, batteries, magnetism, meters, alternating current (AC), capacitance, inductance, transformers, and AC circuit analysis.

ELEC 54B FUNDAMENTALS OF ELECTRONIC DEVICES

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of ELEC 54A.
Transferability: CSU.
Description: Introduction to electronic devices. Concepts of solid-state rectifier and amplifier circuits.

ELEC 54C MICROCONTROLLERS AND EMBEDDED SYSTEMS

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of ELEC 54B.
Transferability: CSU.
Description: An introduction to computer programming concepts using microcontrollers to program computer circuits and hardware. Microcontrollers such as the Arduino and PicAxe will be used to interface with circuits constructed on prototyping boards. Course content includes both software and hardware troubleshooting.

ELEC 64A ELECTRONIC CONSTRUCTION 1

2 Units/1 hour lecture, 3 hours laboratory. Grade Only.
Transferability: CSU.
Description: Techniques in layout, fabrication, assembly, wiring, testing and identification of components for the electronic chassis and printed circuit fabrication.The course includes general safety, the use and care of hand tools, soldering and de-soldering techniques.

ELEC 82 MECHATRONICS FUNDAMENTALS

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of ELEC 54C.
Transferability: CSU.
Description: Analysis and control of systems that combine mechanical elements with electronic components as well as computers and/or microcontrollers. Topics include sensors, actuators, servo and stepper motors and motor controllers.

ELEC 88 COMPUTER HARDWARE

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Course Completion or Concurrent Enrollment in CS 101B.
Transferability: CSU.
Description: Fundamentals of computer hardware repair and basic diagnostic tests. Emphasis on general computer operation and maintenance including a unit on laptops. Includes complete disassembly and reassembly of a PC (Personal Computer) by each student. (Lecture/Lab)

ELEC 98 INDEPENDENT STUDY IN ELECTRONIC TECHNOLOGY

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU.
Description: Independent study on a chosen area of electronic or mechatronic technology through independent study and research.

ELEC 153 PROGRAMMABLE LOGIC CONTROLLERS

(Formerly ELEC 53) 3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade Only.
Description: Fundamentals of Programmable Logic Controllers (PLCs), including PLC types, input and output devices, and ladder logic programming.

ELEC 154 ROTATING MACHINERY

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade or P/NP.
Description: Fundamentals of three-phase and single-phase rotating machinery. Includes the operation and maintenance of Direct Current (DC) and Alternating Current (AC) motors, generators, and controllers. (Lecture/Lab)

ELEC 180 DIGITAL TOOLS FOR ELECTRONICS

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Course Completion of CS 101B.
Description: Fundamentals of computerized data acquisition and programmable instrument control using National Instruments LabVIEW graphical programming software.Topics include building virtual instruments (VIs), using control structures, using analog and digital signal generators, performing signal processing and analysis, creating charts and graphs, implementing instrument control and data acquisition. Includes an introduction to spice circuit simulation using National Instruments Multisim.

ELEC 184 INDUSTRIAL ROBOTICS FUNDAMENTALS

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade Only.
Description: An introductory course to the control of autonomous industrial robots. Students will learn the fundamentals of basic robotics and learn how to control the Fanuc LR-Mate 200id robotic arm using a teach pendant and 3D control software.

EMERGENCY MEDICAL CARE (EMC)

EMC 100 EMERGENCY MEDICAL RESPONDER

(Formerly EMC 290) 2 Units/1.5 hours lecture, 1.5 hours laboratory, 1 hour by arrangement. Grade Only.
Description: Manipulative and problem solving skills required for the individual interested in pursuing a career as an emergency medical responder to victims of illness or injury. Upon completion of course, student receives both CPR for Health Care Providers and Emergency Medical responder course completion certificate.

EMC 103 EMERGENCY MEDICAL TECHNICIAN

5.5 Units/3 hours lecture, 3 hours laboratory, 4.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of EMC 100. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must be at least 18 years of age and pass DOJ/FBI Live Scan background check. Student must have current certification in American Heart Association Health Care Provider CPR. Required immunizations in accordance with standard health care guidelines.
Description: Basic level course primarily designed to meet the California State Emergency Medical Services Authority (EMSA) requirements for the Emergency Medical Technician who functions on an operational ambulance. Students are able to apply principles of anatomy, physiology and communications as they relate to the assessment of the sick and injured and rendering pre-hospital basic life support. Students will apply the above knowledge to develop manipulative skills necessary to the practice of an Emergency Medical Technician. Students will be required to attend scheduled weekend activities. Students must be 18 years of age or have documentation demonstrating legal emancipation by first class meeting. Students must clear a criminal background check through Livescan (DOJ/FBI). Students must have current immunizations in accordance with state healthcare guidelines. Course required for California EMT certification.

EMC 104.1 EMERGENCY MEDICAL TECHNICIAN BASIC - REFRESHER

(Formerly EMC 274.1) 1 Unit/0.5 hour lecture, 1.5 hours laboratory. P/NP Only. Limits on enrollment: EMT-1 certificate, current or expired no more than 2 years. Current CPR card for Health Care Providers.
Description: Refresher course designed to update the knowledge and skills of the EMT-Basic (B) in compliance with the requirements as outlined by the State of California Administration Code. Basic principles learned as an EMT(B) are used in the exploration and solving of problems encountered in the pre-hospital setting.
Legally Mandated Repetition

EMC 105 EMERGENCY MEDICAL SERVICES ACADEMY

8 Units/6 hours lecture, 6 hours laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in EMC 103. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be 18 years of age. Must have current driver license. Must have current certification in CPR for Health Care Providers.
Description: An academy course intended for the student preparing for a career in the Emergency Medical Services field. Successful completion of this course will enable the students to build on their Emergency Medical Technician -1 (EMT) training and become more qualified as an entry-level job candidates. Discipline, teamwork, and personal accountability are strongly emphasized. Academy uniform, gym apparel, and related safety equipment are required.

EMC 108 DRIVING SKILLS FOR EMERGENCY VEHICLE OPERATORS

0.25 Unit/2 hours lecture, 6 hours laboratory for 1 week. P/NP Only. Limits on enrollment: Must have current Class "C" California Driver License and Ambulance special certificate.
Description: Designed for emergency service personnel to improve the skill level of operators of vehicles. Hands-on driving exercises to develop and improve skills in close-quarters maneuvering, backing, and routine driving activities.
Legally Mandated Repetition

EMC 109 INTRODUCTION TO PARAMEDIC

0.25 Unit/2.75 hours lecture, 5.25 hours laboratory for 1 week. Grade Only. Recommended: Course Completion of EMC 114 (Basic Arrhythmia) and one of the following: ANAT 40; ANAT 58; PHYSIO 58. Course eligibility of CSKLS 372; and ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates. Limits on enrollment: State regulation requires EMT-1 certification and CPR for Health Care Providers for entrance into paramedic program.
Description: Course is designed to prepare the student with the basic knowledge and skills necessary to succeed in the Paramedic Academy.

EMC 111 PARAMEDIC NATIONAL REGISTRY EXAM PREPARATION AND TESTING

(Formerly EMC 270D) 0.25 Unit/16 hours laboratory for 1 week. P/NP Only. Limits on enrollment: Must meet the eligibility criteria set by the National Registry of Emergency Medical Technician approved paramedic course.
Description: This course is designed to prepare the student for the Paramedic National Registry skills exam. Preparation and administration of the Emergency Medical Technician - Paramedic National Registry skills exam is required for paramedic licensure.

EMC 114 BASIC ARRHYTHMIA RECOGNITION COURSE

(Formerly EMC 275.1) 2 Units/2 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Application of basic principles of cardiac anatomy and physiology to recognize basic heart arrhythmias. Designed for health and allied care personnel who assume responsibility for cardiac monitoring in the pre-hospital and hospital setting.
Legally Mandated Repetition

EMC 115 ADVANCED INTERPRETATION OF ARRHYTHMIAS AND 12-LEAD EKG

(Formerly EMC 275.5) 1 Unit/3 hours lecture, 5 hours laboratory for 4 weeks. P/NP Only. Prerequisite: Course Completion of EMC 114. Recommended: Course Completion of EMC 116.
Description: Designed for paramedical and other allied health personnel whose occupation entails interpretation and/or knowledge of 12-lead electrocardiogram (EKG). Application of principles needed to interpret a 12-lead electrocardiogram (EKG).
Legally Mandated Repetition

EMC 116 ADVANCED CARDIAC LIFE SUPPORT

(Formerly EMC 275.2) 0.5 Unit/5 hours lecture, 11 hours laboratory for 1 week. P/NP Only. Limits on enrollment: Course adheres to the American Heart Association standards that participants are physicians, RN's or paramedics actively involved or required by law to be certified as advanced life support providers.
Description: Designed for nursing, medical, para-medical or allied health personnel whose daily occupation demands proficiency and certification in the knowledge of advance cardiac life support skills. Student is able to

analyze life threatening cardiac emergencies and apply advanced principles of cardiac and respiratory anatomy and physiology. Curriculum adheres to the American Heart Association Advance Cardiac Life Support standards.
Legally Mandated Repetition

EMC 116.1 ADVANCED CARDIAC LIFE SUPPORT RE-RECOGNITION

(Formerly EMC 275.4) 0.25 Unit/2.5 hours lecture, 5.5 hours laboratory for 1 week. P/NP Only. Limits on enrollment: Current ACLS provider and CPR Health Care Provider
Description: This course provides information and training to update advanced cardiac life support skills as required by the American Heart Association.
Legally Mandated Repetition

EMC 118 PEDIATRIC ADVANCED LIFE SUPPORT

0.25-0.5 Unit/Up to 5 hours lecture, 11 hours laboratory for 1 week. P/NP Only. Limits on enrollment: Per specification of American Heart Association, to receive pediatric advanced life support certification student must be licensed physician, nurse, paramedic, respiratory care practicioners, or certified Emergency Medical Technician.
Description: This course is designed to prepare the health care professional to care for critically ill and injured children in the pre-hospital setting. Upon successful completion, the student will be awarded an American Heart Association (AHA) Pediatric Advanced Life Support (PALS) certification valid for two years.
Legally Mandated Repetition

EMC 119 PEDIATRIC ADVANCED LIFE SUPPORT RE-RECOGNITION

0.25 Unit/2.5 hours lecture, 5.5 hours laboratory for 1 week. P/NP Only. Limits on enrollment: Current Pediatric Advanced Life Support (PALS) provider
Description: This course provides information and training to update pediatric advanced life support skills as required by the American Heart Association (AHA).
Legally Mandated Repetition

EMC 124 PARAMEDIC: ADVANCED LIFE SUPPORT UPDATE

0.25 Unit/2.5 hours lecture, 5.5 hours laboratory for 1 week. P/NP Only. Limits on enrollment: Licensed paramedics
Description: A comprehensive class consisting of lecture, case-based scenario practice and skill stations that will enhance and expand the knowledge and skills of licensed paramedics in the area of infrequently practiced, practiced or expanded scope skills. This course is for licensed paramedics requiring accreditation for the Coastal Valley EMS region.
Legally Mandated Repetition

EMC 131A PARAMEDIC CLINICAL PRACTICUM 1

2 Units/6 hours by arrangement. Grade Only. Prerequisite: Course Completion of ANAT 40, EMC 109, and EMC 114; and Concurrent Enrollment in EMC 133A; OR Course Completion of ANAT 58, EMC 109, and EMC 114; and Concurrent Enrollment in EMC 133A. Limits on enrollment: Enrollment in Paramedic Academy
Description: Synthesis and application of knowledge and skills acquired in EMC133A and EMC 133B in a clinical setting to include, but not limited to the Emergency Department and various specialty units. This course meets standards mandated by the California Health and Safety Code, Title 22 and the National Emergency Services Education Standards (NEMSES) published by the United States Department of Transportation (USDOT).

EMC 131B PARAMEDIC CLINICAL PRACTICUM 2

3 Units/9 hours by arrangement. Grade Only. Prerequisite: Course Completion of EMC 109. Limits on enrollment: Enrollment in Paramedic Academy
Description: Synthesis and application of knowledge and skills acquired in EMC 133C and EMC 133D in a clinical setting to include, but not limited to the Emergency Department and various specialty units. This course meets standards mandated by the California Health and Safety Code, Title 22 and the National Emergency Services Education Standards (NEMSES) published by the United States Department of Transportation (USDOT).

EMC 133A PARAMEDIC THEORY 1A - PREPARATORY

(Formerly EMC 130A) 9.5 Units/10 hours lecture, 9 hours laboratory for 13 weeks. Grade Only. Prerequisite: Course Completion of ANAT 40, and EMC 109, EMC 114; and Concurrent Enrollment in EMC 131A; OR Course Completion of ANAT 58, and EMC 109, EMC 114; and Concurrent Enrollment in EMC 131A. Recommended: Eligibility for ENGL 100 or ESL 100; AND Course Completion of CSKLS 372 and EMC 105. Limits on enrollment: Enrollment in Paramedic Academy
Description: First course in a series leading to the completion of paramedic didactic training. Emphasis is on preparatory, airway management, patient assessment and pharmacology in the pre-hospital environment. The California Health and Safety Code, Title 22 regulations, the National Emergency Medical Services Education Standards (NEMSES) as published by U.S. Department of Transportation (DOT).

EMC 133B PARAMEDIC THEORY 1B - TRAUMA EMERGENCIES

(Formerly EMC 130D) 2.5 Units/8 hours lecture, 10 hours laboratory for 4 weeks. Grade Only. Prerequisite: Course Completion of EMC 109. Limits on enrollment: Enrollment in Paramedic Academy
Description: Second didactic course in a series leading to the completion of paramedic didactic training. Emphasis on the assessment and treatment of the trauma patient in the field care environment. Meets standards for both the California Health and Safety Code, Title 22 and the National Emergency Medical Services Education Standards (NEMSES) as published by U.S. Department of Transportation (DOT).

EMC 133C PARAMEDIC THEORY 2A - MEDICAL EMERGENCIES

(Formerly EMC 130B) 8 Units/8.75 hours lecture, 8.75 hours laboratory for 12 weeks. Grade Only. Prerequisite: Course Completion of EMC 109. Limits on enrollment: Enrollment in Paramedic Academy
Description: Third course in a series leading to the completion of paramedic didactic training. Emphasis is on assessment and treatment of cardiac and other medical emergencies in the field care environment. Meets standards for both the California Health and Safety Code, Title 22 and theNational Emergency Medical Services Education Standards (NEMSES) as published by U.S. Department of Transportation (DOT).

EMC 133D PARAMEDIC THEORY 2B - PEDIATRIC AND OTHER EMERGENCIES

(Formerly EMC 130C) 3.5 Units/7.5 hours lecture, 9 hours laboratory for 6 weeks. Grade Only. Prerequisite: Course Completion of EMC 109 (or EMC 260). Limits on enrollment: Enrollment in Paramedic Academy
Description: Fourth didactic course in a series leading to the completion of paramedic didactic training. Emphasis is on assessment and treatment of the pediatric patient in the field care environment, managing hazardous and mass casualty incidents, along with a didactic summative exam process as required by COAEMSP. Meets standards for both the California Health and Safety Code, Title 22 and the National Emergency Medical Services Education Standards (NEMSES) as published by U.S. Department of Transportation (DOT).

EMC 134 PARAMEDIC FIELD PRACTICUM

10 Units/30 hours by arrangement. Grade Only. Prerequisite: Course Completion of EMC 131B and EMC 133D. Limits on enrollment: Enrollment in Paramedic Academy
Description: Synthesis and application of knowledge and skills acquired in paramedic clinical (EMC131A, 131B). Student will work on an approved advanced life support ambulance. This is the final course in a series designed to give students the field experience required for licensure as a paramedic in California. This course meets standards mandated by the California Health and Safety Code, Title 22 and the National Emergency Services Education Standards (NEMSES) published by the United States Department of Transportation (USDOT).

ENGINEERING (ENGR)

ENGR 6 PROGRAMMING IN MATLAB FOR ENGINEERS

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Completion of MATH 1A or higher (MATH).
Transferability: CSU;UC.
Description: Engineering problem solving using the MATLAB computer programming environment. It introduces the fundamentals of procedural and object-oriented programming, numerical analysis, and data structures. Students outline, write, test, and debug computer programs to solve engineering, physics, and mathematics problems and display results.

ENGR 10 INTRODUCTION TO THE ENGINEERING PROFESSION

2 Units/2 hours lecture. Grade or P/NP. Recommended: Course Eligibility for ENGL 100 OR Course Eligibility for ESL 100.
Transferability: CSU;UC.
Description: The course explores the branches of engineering, the functions of an engineer, and the industries in which engineers work. Explains the engineering education pathways and explores effective strategies for students to reach their full academic potential. Presents an introduction to the methods and tools of engineering problem solving and design including the interface of the engineer with society and engineering ethics. Develops communication skills pertinent to the engineering profession.

ENGR 16 ELECTRIC CIRCUITS AND DEVICES

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of PHYS 42 AND Course Completion or Current Enrollment in MATH 2.
Transferability: CSU;UC.
Description: Fundamental principles of circuit analysis and an introduction to the theory and use of common electronic devices. Subjects covered include node and loop analysis, circuit simplification and equivalence, natural and forced response, operational amplifier behavior and circuits, semiconductor theory and behavior, diodes, transistor, and digital circuits. Mathematical concepts reviewed and applied include: matrices and system of equations solutions, binary and hexadecimal numbers, Fourier and Laplace transforms, complex numbers and phasors. Students are required to have a graphing calculator.

ENGR 25 ENGINEERING GRAPHICS AND DESIGN

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of MATH 25 and MATH 58; OR Completion of MATH 27 or higher (MATH). Recommended: Course Completion of APTECH 46.
Transferability: CSU;UC.

Description: Students will develop three dimensional visualization and design skills using freehand sketching and solid modeling software. Design projects will develop teamwork and project skills as well as an understanding of the industry standards for mechanical engineering drawings.

ENGR 34 ENGINEERING MECHANICS: STATICS

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of PHYS 40 (formerly PHYS 4A).
Transferability: CSU;UC.
Description: A vectorial treatment of the principles of statics with application to engineering problems and an emphasis on common engineering computational tools. Students are required to have a graphing calculator.

ENGR 45 PROPERTIES OF MATERIALS

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: CHEM 1A or CHEM 4A and PHYS 40.
Transferability: CSU;UC.
C-ID: ENGR 140B
Description: Structure, properties, selection, utilization, and deterioration of engineering materials. (CAN ENGR 4)

ENGR 49 INDEPENDENT STUDY IN ENGINEERING

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Independent project in engineering to provide for an enriched academic experience. UC determines credit after transfer; not counted for admission. (See a counselor for details.)

ENGR 101 ENGINEERING DESIGN PROJECT

1 Unit/0.75 hour lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Students will work in small groups to investigate, choose, refine and construct engineering design projects. This hands-on class allows participants to develop their engineering skills in a team-oriented environment.

ENGR 102 ROBOTICS DESIGN PROJECT

1 Unit/1 hour lecture. Grade or P/NP.
Description: Students will work in small groups to design, construct, and test a small autonomous robot using the LEGO Mindstorm Robotics Kits. Students gain exposure to mechanical and electrical engineering, as well as computer programming in a team-oriented environment.

ENGR 103 MICROCONTROLLER PROJECTS

1 Unit/1 hour lecture. Grade or P/NP.
Description: Students will work in small groups to design, construct, and test small electro-mechanical projects using computer interface modules and microcontrollers. Students gain exposure to mechanical and electrical engineering, as well as computer programming in a team-oriented environment.

ENGR 770 SUPPLEMENTAL INSTRUCTION: ENGINEERING AND APPLIED TECHNOLOGY

0 Unit/4 hours by arrangement. Non-Credit Course.
Description: An open-entry, open-exit class for students who seek to expand upon their knowledge and skills in engineering related disciplines through technology projects, training, workshops, and presentations. Students will build on the skills developed in referring course(s) in the disciplines: Engineering, Electronics, Photovoltaic Technology, Civil Engineering Technology, Survey Technology, Geospatial Technology, Applied Technology, Water Treatment, Wastewater Treatment, Architecture, and Construction Management.
Exempt From Repeat Provisions

ENGLISH (ENGL)

ENGL 1A COLLEGE COMPOSITION

4 Units/4 hours lecture. Grade Only. Prerequisite: Completion of English 309, English 100, ESL 100 or appropriate placement based on AB 705 mandates.
Transferability: CSU;UC.
C-ID: ENGL 100
GE: *AA/AS area A;CSU area A2;IGETC area 1A*
Description: This is an introductory course that offers instruction in expository and argumentative writing, appropriate and effective use of language, close reading, cogent thinking, research strategies, information literacy, and documentation. The course emphasizes critical reading and discussion of primarily non-fiction, college-level texts with emphasis on expository and argumentative prose.

ENGL 1B LITERATURE AND COMPOSITION

3 Units/3 hours lecture. Grade Only. Prerequisite: Completion of Engl 1A with a grade of 'C' or better.
Transferability: CSU;UC.
C-ID: ENGL 120
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: Introduction to literature that emphasizes critical reading, discussion and analytic writing about works of fiction, poetry, drama, creative non-fiction, and literary criticism. This course promotes the appreciation and critical understanding of the cultural, historical, and aesthetic qualities of literature.

ENGL 2 INTRODUCTION TO THE NOVEL

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or higher (V8).
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: Through reading and discussion of outstanding novels students will analyze the elements of the novel form: narration, point of view, structure, plot, character, theme, style, diction, and metaphorical language.

ENGL 3 INTRODUCTION TO POETRY

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or higher English Course.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*

Description: Study of the nature, variety, and significance of poetry: a studious pursuit of what makes poems work, why they are valued, and how to analyze and appreciate their content and form.

ENGL 4A BEGINNING CREATIVE WRITING

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 100, ESL 100, or higher or equivalent.
Transferability: CSU;UC.
C-ID: ENGL 200
Description: Introductory study and writing of short fiction, poetry, drama, and/or creative non-fiction.

ENGL 4B INTERMEDIATE CREATIVE WRITING

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ENGL 4A.
Transferability: CSU;UC.
Description: Intermediate study and writing of fiction, poetry, drama, and/or creative non-fiction.

ENGL 4C ADVANCED CREATIVE WRITING

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ENGL 4B.
Transferability: CSU;UC.
Description: Advanced study and writing of fiction, poetry, drama, and/or creative non-fiction.

ENGL 5 ADVANCED COMPOSITION AND CRITICAL THINKING

3 Units/3 hours lecture. Grade Only. Prerequisite: Completion of ENGL 1A or higher (V8).
Transferability: CSU;UC.
C-ID: ENGL 105
GE: *AA/AS area B;CSU area A3;IGETC area 1B*
Description: A critical reasoning and advanced composition course designed to develop critical reading, thinking, and writing skills beyond the level achieved in English 1A. The course will focus on development of logical reasoning and analytical and argumentative writing skills.

ENGL 7 INTRODUCTION TO THE SHORT STORY

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or higher (V8).
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: An introduction to the genre of the short story, including the elements of the form: plot, character, setting, point of view, theme, style, diction, symbolism, and figurative language.

ENGL 9 CONTEMPORARY WORLD LITERATURE

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or higher (V8).
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C2;IGETC area 3B*
Description: Contemporary world literature from outside the U.S., including but not limited to Latin America, Asia, the Caribbean, the Middle East, Africa and Europe with emphasis on common current global issues in their cultural contexts.

ENGL 10 INTRODUCTION TO ENVIRONMENTAL LITERATURE

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 100B or higher (V8) OR Course Completion of ENGL 100 OR Course Completion of ESL 100 or appropriate placement based on AB705 mandates.
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C2;IGETC area 3B*
Description: Introduction to American environmental literature. Study will include major figures, themes, and historical periods; different cultural perspectives on the relationship between humans and the non-human world; the role women have played in the development of the genre; and the relationship between environmental literature and emerging environmental concerns.

ENGL 11 INTRODUCTION TO DRAMATIC LITERATURE

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of ENGL 1A.
Transferability: CSU;UC.
C-ID: THTR 114
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: Introduction to dramatic literature that emphasizes critical reading, discussion, and analytic writing about dramatic works. This course will cover the history of drama by paying specific attention to dramatic genres, like tragedy and comedy, and the various prominent movements in world theaters.

ENGL 12 CHILDREN'S LITERATURE

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or higher (V8) or appropriate placement based on AB 705 mandates.
Transferability: CSU;UC.
C-ID: ENGL 180
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: This course will study the history, development, and range of children's literature, important authors, and themes in children's literature. Material will cover a variety of types of literature from folklore and oral tradition to contemporary stories, illustrated books, poetry, and juvenile novels. Texts will be drawn from many cultures, and they will be analyzed from a variety of critical perspectives.

ENGL 14 DYSTOPIAN LITERATURE

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or higher (V8).
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: This course will survey the genre of dystopian literature: works set in a futuristic bad-place (dys-topos). Study will include classic and contemporary works; major writers and themes of dystopian literature; technocultural theory; and an exploration of why dystopian literature has captured the contemporary cultural imagination.

ENGL 22 ETHNIC DIVERSITY IN AMERICAN LITERATURE

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,G;CSU area C2;IGETC area 3B*
Description: A study of ethnic literature in America. Reading, discussion and analysis of trends in the literature of three of the following United States ethnic groups: Native American, European American, Asian American, African American, Latino American, Middle Eastern American. The course will emphasize the cultural issues that shape each ethnic literature, as well as its special contributions to American literature overall.

ENGL 25 INTRODUCTION TO LANGUAGE STUDY

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 100 or ESL 100 or higher or equivalent or appropriate placement based on AB705 mandates.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: Study of the nature and structure of language including: language and the mind; child language acquisition; language in its social setting; language and culture; language change; applications of the science of linguistics.

ENGL 27 INTRODUCTION TO SHAKESPEARE

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: Study of Shakespeare based on a reading of representative plays and selected sonnets.

ENGL 30.1 AMERICAN LITERATURE: PRE-COLONIAL PERIOD TO THE CIVIL WAR

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or higher (V8).
Transferability: CSU;UC.
C-ID: ENGL 130
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: Significant writers and their works from the Pre-Colonial Period to the Civil War, including both a thematic and a historical approach to literature of the period.

ENGL 30.2 AMERICAN LITERATURE FROM 1865 TO THE PRESENT

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or higher English Course.
Transferability: CSU;UC.
C-ID: ENGL 135
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: Significant American writers and their works from 1865 to present, including both a thematic and a historical approach to the literature of the period.

ENGL 31 AFRICAN-AMERICAN LITERATURE

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ENGL 1A.
Transferability: CSU;UC.
GE: *AA/AS areas E,G;CSU area C2;IGETC area 3B*
Description: Reading, discussion and writing about significant African-American writers and their works from slave period to present. The course uses both a thematic and historical approach to African-American literature.

ENGL 33 CHICANO/CHICANA ARTS AND LITERATURE

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or higher with a "C" or better.
Transferability: CSU;UC.
GE: *AA/AS areas E,G;CSU area C2;IGETC area 3B*
Description: An introduction to contemporary and traditional literature, drama, cinema, art, and music, and/or

visual and performance art created by Chicanas/Chicanos. An examination of this group's literature and arts, addressing major theoretical and analytical issues relevant to understanding the dynamic interactions between gender, class, race, and ethnicity in the United States.

ENGL 34 CALIFORNIA LITERATURE

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or higher with a "C" or better.
Transferability: CSU;UC.
Description: An exploration of significant literature by California writers who represent the ethnic, cultural, and geographic diversity of the state, including works about California by others who have helped shape the state's political, economic, social, and cultural identity. Texts will include films and other art forms.

ENGL 36 LESBIAN, GAY, BISEXUAL,TRANSGENDER ARTS AND LITERATURE

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or higher with a "C" or better.
Transferability: CSU;UC.
GE: *AA/AS areas E,G;CSU area C2;IGETC area 3B*
Description: Reading, discussion and writing about significant LGBT writers and artists and their works from antiquity to present. The course uses both a thematic and historical approach to the literature and arts including the study of poetry, short stories, novels, plays, cinema, music, biographies, coded texts, and political essays.

ENGL 46.1 SURVEY OF ENGLISH LITERATURE PART 1

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ENGL 1A.
Transferability: CSU;UC.
C-ID: ENGL 160
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: This course surveys major works of British literature up to the last quarter of the 18th century. Students will analyze the meaning, style, and relevance of selected works of this time period, and the importance of their authors in literary history.

ENGL 46.2 SURVEY OF ENGLISH LITERATURE PART 2

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ENGL 1A.
Transferability: CSU;UC.
C-ID: ENGL 165
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: Reading and discussion of important works from the British Isles from the Late Eighteenth Century to the present, analyzing the meaning, style, and relevance of these works and the importance of their authors in literary history.

ENGL 49 INDEPENDENT STUDY IN ENGLISH

1-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Seminars or individual conferences by arrangement to provide for independent study and enriched academic experience. Students must work with an instructor who has agreed to oversee the project. UC determines credit AFTER transfer; not counted for admission. (See a counselor for details.)

ENGL 50 ENGLISH 1A SUPPORT COURSE

2 Units/2 hours lecture. P/NP Only. Prerequisite: Concurrent Enrollment in ENGL 1A. Corequisite: Appropriate (or qualifying) placement based on AB 705 mandates - want to use this phrase (similar to MATH courses).
Description: Enhance and support students' critical reading, writing, thinking, and research skills for effective participation in and successful completion of English 1A.

ENGL 100 COLLEGE READING AND WRITING

4 Units/4 hours lecture. Grade Only. Prerequisite: Completion of ENGL 302 or higher (V8) OR Course Completion of ENGL 306 OR Qualifying Test Score of 109 in ENGL.
Description: This reading and writing course is designed to develop skills to the level required for success in ENGL 1A and other transfer-level courses. Formerly ENGL 100B.

ENGL 100X COLLEGE READING AND WRITING--ACCELERATED WRITING EMPHASIS

4 Units/4 hours lecture. P/NP Only. Prerequisite: Concurrent Enrollment in ENGL 302X.
Description: This course must be taken concurrently with English 302X, and develops student proficiency in academic and career/technical writing, reading, learning, and information competency skills necessary for college work. This intensive course presents the coursework for both English 307 and 100, and is designed to prepare motivated and committed students for English 1A in a semester. In the first half of this class students will focus on reading improvement while writing short essays with particular attention to grammar, punctuation, spelling, and use of college-level vocabulary. During the second half of this class, students will write increasingly longer and more complex essays in response to more sophisticated readings at the college level.

ENGL 302X COLLEGE READING AND WRITING-ACCELERATED READING EMPHASIS

4 Units/4 hours lecture. Grade Only. Prerequisite: Completion of ENGL 305 or higher (V8) and Concurrent Enrollment in ENGL 100X OR Qualifying Test Score of 94 in ENGL and Concurrent Enrollment in ENGL 100X.
Description: This course must be taken concurrently with English 100X and develops student proficiency in academic and career/technical writing, reading, learning, and information competency skills necessary for college work. This intensive course presents the coursework for both English 302 and 100, and is designed to prepare motivated and committed students for English 1A in a semester. During the first half of the class students will focus on reading improvement while writing shorter essays with particular attention to grammar, punctuation, spelling, and use of college-level vocabulary. The second half of the class students will write increasingly longer and more complex essays in response to more sophisticatedl college-level readings.

ENGL 305X DEVMT OF COLLEGE READING WRITING--ACCELERATED, READING EMPH

4 Units/4 hours lecture. Grade Only. Prerequisite: Completion of CSKLS 313 or higher (V8) and Concurrent Enrollment in ENGL 306X or Qualifying Placement from English Assessment. See Student Success & Assessment Services (assessment.santarosa.edu) for more information about the assessment process.
Description: This course must be taken concurrently with 306X, and develops student proficiency in academic and career/technical learning, reading, writing, and information competency skills necessary for college work. This intensive course represents the coursework for both English 305.1 and 307, and is designed to prepare motivated and committed students for English 100 in a single semester. In the first half of this class students will focus on

reading improvement while writing shorter essays with particular attention to grammar, punctuation, spelling, and the use of college-level vocabulary. During the second half of this class, students will write increasingly longer and more complex essays and reports responding to college-level readings.

ENGL 305.1 DEVELOPMENT OF COLLEGE READING AND WRITING

4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CSKLS 313 or higher or Qualifying Placement from English Assessment. See Student Success & Assessment Services (assessment.santarosa.edu) for more information about the assessment process.
Description: Development of general education and career-technical reading, writing, and information competency skills necessary for college work.

ENGL 306X DEV OF COLLEGE READING WRITING--ACCELERATED, WRITING EMPH

4 Units/4 hours lecture. P/NP Only. Prerequisite: Concurrent Enrollment in ENGL 305X.
Description: This course must be taken concurrently with 305X, and develops student proficiency in academic and career/technical learning, reading, writing, and information competency skills necessary for college work. This intensive course represents the coursework for both English 305.1 and 307, and is designed to prepare motivated and committed students for English 100 in a single semester. In the first half of this class students will focus on reading improvement while writing shorter essays with particular attention to grammar, punctuation, spelling, and the use of college-level vocabulary. During the second half of this class, students will write increasingly longer and more complex essays and reports responding to college-level readings.

ENGL 307 IMPROVEMENT OF COLLEGE READING AND WRITING

4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 305 or higher (V8).
Description: This course develops student proficiency in academic and career/technical learning, reading, writing, and information competency skills necessary for college work.

ENGL 309 COLLEGE READING AND WRITING -- EXTENSIVE WRITING EMPHASIS

5 Units/5 hours lecture. Grade Only. Prerequisite: Course Completion of CSKLS 313 or higher or Qualifying Placement from English Assessment. See Student Success & Assessment Services (assessment.santarosa.edu) for more information about the assessment process.
Description: This course develops student proficiency in college and career-related forms of writing, reading, critical thinking, and information competency skills necessary for college work. This course is designed to prepare students for English 1A in one semester. Students will focus on reading improvement while writing short essays with particular attention to grammar, punctuation, spelling, and use of college-level vocabulary. Additionally, students will write increasingly longer and more complex expository and argumentative texts (including essays) for a range of audiences in response to more sophisticated readings at the college level.

ENGL 770 WRITING CENTER

0 Unit/10 hours by arrangement. Non-Credit Course.
Description: In this course students will receive individualized instruction in essential English skills. This course supports students with academic reading and writing assignments from across disciplines and with college and job

preparation writing tasks. It also supports students by developing their college level English skills, including academic writing, active reading, and grammar.
Exempt From Repeat Provisions

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL 10 ESL COLLEGE COMPOSITION

4.5 Units/4.5 hours lecture. Grade Only. Prerequisite: Course Completion of ESL 100 or ENGL 100 or appropriate placement based on AB 705 mandates.
Transferability: CSU;UC.
GE: *AA/AS area A;CSU area A2;IGETC area 1A*
Description: This course is designed for non-native English speakers and emphasizes preparing students for the writing and critical reading demands across the disciplines by covering academic genres representative of the college at large. Students receive instruction in expository and argumentative writing, appropriate and effective use of language, close reading, cogent thinking, and research strategies. An additional focus is integrated grammar and academic vocabulary instruction based on needs typical of second-language learners.

ESL 100 COLLEGE READING AND WRITING FOR ESL STUDENTS

4.5 Units/4.5 hours lecture. Grade Only. Prerequisite: Course Completion of ESL 373 OR ESL 373B OR ESL 320W.
Description: An AA/AS degree-applicable course designed to aid non-native speakers of English in developing skills to the level required for success in English 1A and other transfer-level courses. Upon successful completion of this class, students will be eligible to take ENGL 1A.

ESL 300GR ENGLISH AS A SECOND LANGUAGE COLLEGE LEVEL GRAMMAR REVIEW

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Concurrent Enrollment in ESL 100.
Description: A grammar workshop designed for advanced ESL students at the ESL 100 level to review a variety of English grammar structures and to apply grammar revision strategies to writing.

ESL 332 ESL FOR DESKTOP APPLICATIONS

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Course Eligibility for ESL 312.
Description: This is a course for ESL students who are interested in expanding their computer literacy skills. This ESL computer course includes reading, vocabulary, study and test-taking strategies, and written and oral communication skills. Students use Microsoft Office (Word, PowerPoint and Excel) as they develop language skills.

ESL 334 ESL FOR THE HEALTH SCIENCES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Course Eligibility for ESL 371 OR ESL 371A.
Description: Designed to develop language skills for career preparation in the healthcare field. Content includes health career pathways, occupation-specific terminology and communication skills. Course content is selected to support health career training for non-native speakers of English.

ESL 335 VOCATIONAL ENGLISH AS A SECOND LANGUAGE FOR CULINARY ARTS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Course Eligibility for ESL 314 OR Course Eligibility for ESL 716.
Description: This course will provide a foundation for non-native English speaking students for 4 introductory Culinary Arts classes. Students will become familiar with basic culinary and food safety vocabulary; learn reading, writing and test-taking skills; and oral communication skills necessary for the professional culinary environment.

ESL 353 PRACTICAL ESL FOR EARLY CHILDHOOD PROFESSIONALS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Course completion of ESL 312 or eligibility for ESL 314 or higher.
Description: For non-native English speakers who are preparing to work with young children ages 0 -12. This class supports CHLD 51 and/or CHLD 10 and provides practice in the reading, writing, listening and speaking skills used in early childhood educational settings.

ESL 371 INTERMEDIATE READING/WRITING/GRAMMAR FOR ESL STUDENTS

9 Units/9 hours lecture. Grade or P/NP. Prerequisite: Qualifying Test Score on ESL Placement Test; OR Course Completion of ESL 312, ESL 781 or ESL 781B.
Description: An intermediate reading, writing, and grammar course focusing on the development of pre-academic reading skills with particular focus on comprehension, critical thinking, vocabulary and rate. Paragraph structure and introduction to essays, including writing, revising, and editing. Emphasis on tenses and the development of varied sentence structure. Review of high beginning grammar and punctuation. Designed for non-native speakers of English.

ESL 371A INTERMEDIATE READING/WRITING/GRAMMAR FOR ESL STUDENTS PART 1

4.5 Units/4.5 hours lecture. Grade or P/NP. Prerequisite: Qualifying Test Score on ESL Placement Test; OR Course Completion of ESL 312, ESL 781 or ESL 781B.
Description: The first half of an intermediate reading, writing, and grammar course focusing on the development of academic reading skills with particular focus on comprehension, critical thinking, vocabulary and rate. Paragraph structure, including writing, revising, and editing. Emphasis on tenses and the development of varied sentence structure. Review of high beginning grammar and punctuation. Designed for non-native speakers of English.

ESL 371B INTERMEDIATE READING/WRITING/GRAMMAR FOR ESL STUDENTS PART 2

4.5 Units/4.5 hours lecture. Grade or P/NP. Prerequisite: Qualifying Test Score on ESL Placement Test; OR Course Completion of ESL 371A.
Description: The second half of an intermediate reading, writing, and grammar course focusing on the development of academic reading skills with particular focus on comprehension, critical thinking, vocabulary and rate. Paragraph structure and introduction to essays, including writing, revising, and editing. Emphasis on tenses and the development of varied sentence structure. Designed for non-native speakers of English.

ESL 371CP ESL INTERMEDIATE CONVERSATION/PRONUNCIATION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ESL 371; OR Eligibility for ESL 371A or higher; OR Completion of ESL 714CP.
Description: An intermediate oral communication course designed to improve listening, speaking, and pronunciation skills necessary for successful interaction in social, academic and workplace environments. Recommended for non-native speakers of English.

ESL 371GR ENGLISH AS A SECOND LANGUAGE INTERMEDIATE GRAMMAR REVIEW

(Formerly ESL 311GR) 1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Course Eligibility for ESL 371 OR ESL 371A.
Description: A communicative grammar workshop designed for intermediate ESL students to review and reinforce a variety of level-appropriate English grammar structures.

ESL 372 HIGH-INTERMEDIATE READING/WRITING/GRAMMAR FOR ESL STUDENTS

9 Units/9 hours lecture. Grade or P/NP. Prerequisite: Qualifying Test Score on ESL Placement Test; OR Course Completion of ESL 314, ESL 371 or ESL 371B.
Description: A high-intermediate reading, writing, and grammar course focusing on the development of academic reading skills with particular focus on comprehension, vocabulary and rate, and the basic essay process, including writing, revising, and editing. Emphasis on complex clause structures and review of intermediate grammar structures and punctuation. Designed for non-native speakers of English.

ESL 372A HIGH-INTERMEDIATE READING/WRITING/GRAMMAR FOR ESL PART 1

4.5 Units/4.5 hours lecture. Grade or P/NP. Prerequisite: Qualifying Test Score on ESL Placement Test; OR Course Completion of ESL 314, ESL 371 or ESL 371B.
Description: The first half of a high-intermediate reading, writing, and grammar course focusing on the development of academic reading skills with particular focus on comprehension, vocabulary and rate, and the basic essay process, including writing, revising, and editing. Emphasis on complex clause structures and review of intermediate grammar structures and punctuation. Designed for non-native speakers of English.

ESL 372B HIGH-INTERMEDIATE READING/WRITING/GRAMMAR FOR ESL PART 2

4.5 Units/4.5 hours lecture. Grade or P/NP. Prerequisite: Qualifying Test Score on ESL Placement Test; OR Course Completion of ESL 372A.
Description: The second half of a high-intermediate reading, writing, and grammar course focusing on the development of academic reading skills with particular focus on comprehension, vocabulary and rate, and the basic essay process, including writing, revising, and editing. Emphasis on complex clause structures and review of intermediate grammar structures and punctuation. Designed for non-native speakers of English.

ESL 372CP ESL HIGH-INTERMEDIATE CONVERSATION/PRONUNCIATION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Course Completion of ESL 371CP; OR Course Eligibility for ESL 372; OR ESL 372A or higher.
Description: A high-intermediate level oral communication course designed to improve speaking, listening, and

pronunciation skills necessary for critical thinking in social, academic, and professional environments. Recommended for non-native speakers of English.

ESL 372GR ESL HIGH INTERMEDIATE GRAMMAR REVIEW

1.5 Units/1.5 hours lecture. P/NP Only. Recommended: Course eligibility for ESL 372 or ESL 372A.
Description: A communicative grammar course designed for high intermediate ESL students to review and reinforce a variety of English grammar structures.

ESL 373 ADVANCED ACADEMIC READING AND WRITING FOR ESL STUDENTS

9 Units/9 hours lecture. Grade or P/NP. Prerequisite: Qualifying Test Score on ESL Placement Test; OR Course Completion of ESL 316, ESL 372 or ESL 372B.
Description: An advanced-level academic reading and writing course focusing on the development of academic English skills with emphasis on reading comprehension, critical analysis, vocabulary development, essay writing, editing and revision techniques, and research. Designed for non-native speakers of English.

ESL 373A ADVANCED ACADEMIC READING AND WRITING FOR ESL STUDENTS PART1

4.5 Units/4.5 hours lecture. Grade or P/NP. Prerequisite: Qualifying Test Score on ESL Placement Test; OR Course Completion of ESL 316, ESL 372 or ESL 372B.
Description: The first half of an advanced-level academic reading and writing course focusing on the development of academic English skills with emphasis on reading comprehension, critical analysis, vocabulary development, essay writing, editing and revision techniques, and research. Designed for non-native speakers of English.

ESL 373B ADVANCED ACADEMIC READING AND WRITING FOR ESL STUDENTS PART2

4.5 Units/4.5 hours lecture. Grade or P/NP. Prerequisite: Qualifying Test Score on ESL Placement Test; OR Course Completion of ESL 373A.
Description: The second half of an advanced-level academic reading and writing course focusing on the development of academic English skills with emphasis on reading comprehension, critical analysis, vocabulary development, essay writing, editing and revision techniques, and research. Designed for non-native speakers of English.

ESL 373CP ESL ADVANCED CONVERSATION/PRONUNCIATION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Course Completion of ESL 372CP OR Course Eligibility for ESL 373 OR ESL 373A or higher.
Description: An advanced-level oral communication course designed to improve speaking, listening, and pronunciation skills necessary for critical thinking in academic, professional and social environments. Recommended for non-native speakers of English.

ESL 373GR ENGLISH AS A SECOND LANGUAGE ADVANCED GRAMMAR REVIEW

(Formerly ESL 317GR) 1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Course eligibility for ESL 373 or ESL 373A.
Description: A grammar workshop designed for advanced ESL students to review and reinforce a variety of level-appropriate English grammar structures and to apply grammar revision strategies to writing.

ESL 391 U.S. LIFE AND CULTURE FOR ESL LEARNERS

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Course Eligibility for ESL 371 OR ESL 371A.
Description: This course is designed to introduce non-native English speaking students to the daily life, culture, and education systems of the United States. Students will learn the vocabulary and oral communication skills necessary to function in U.S. society, including academic settings, through a combination of lectures by local experts, organized field trips, and authentic experiences.

ESL 701 DEVELOPMENT OF LITERACY SKILLS

0 Unit/5.5 hours laboratory. Non-Credit Course.
Description: Development of literacy skills in native language. Includes reading, writing, and survival skills necessary for success in workplace, academic and social settings. Recommended for native Spanish speakers.
Exempt From Repeat Provisions

ESL 712 BEGINNING NON-CREDIT ESL LITERACY

0 Unit/5.5 hours lecture. Non-Credit Course.
Description: Non-Credit English as a Second Language Literacy is for non-native speakers of English with little or no ability to read and write in English due to limited transfer skills in first language.
Exempt From Repeat Provisions

ESL 713 LOW BEGINNING NON-CREDIT ENGLISH AS A SECOND LANGUAGE

0 Unit/5.5 hours lecture. Non-Credit Course.
Description: Beginning-Low Non-Credit English as a Second Language is for non-native speakers of English with little or no ability to function independently in English in everyday situations.
Exempt From Repeat Provisions

ESL 713CP BEGINNING-LOW NON-CREDIT ESL CONVERSATION/PRONUNCIATION

0 Unit/2.75 hours lecture. Non-Credit Course. Recommended: Course Completion of ESL 713 OR Qualifying Score on NC ESL Writing Assessment.
Description: This class is for non-native speakers of English with very limited ability to function independently in English in everyday situations. Particular emphasis on vocabulary development, pronunciation and oral language skills needed in real-life settings.
Exempt From Repeat Provisions

ESL 713RW BEGINNING-LOW NON-CREDIT ESL READING/WRITING

0 Unit/2.75 hours laboratory. Non-Credit Course. Recommended: Course Completion of ESL 713 OR Qualifying Score on NC ESL Writing Assessment.
Description: This class is for non-native speakers of English with very limited ability to function independently in

English in everyday situations. Particular emphasis on beginning-level reading and writing skills needed at work, school, and in the community.
Exempt From Repeat Provisions

ESL 714 HIGH BEGINNING NON-CREDIT ENGLISH AS A SECOND LANGUAGE

0 Unit/5.5 hours lecture. Non-Credit Course.
Description: Beginning-High Non-Credit English as a Second Language is for non-native speakers of English with limited ability to function independently in English in everyday situations
Exempt From Repeat Provisions

ESL 714CP BEGINNING-HIGH NON-CREDIT ESL CONVERSATION/PRONUNCIATION

0 Unit/2.75 hours lecture. Non-Credit Course. Recommended: Course Completion of ESL 714 or qualifying placement.
Description: This class is for non-native speakers of English with limited ability to function independently using English in everyday situations. Particular emphasis on vocabulary development, pronunciation and oral language skills needed in real-life settings.
Exempt From Repeat Provisions

ESL 714RW BEGINNING-HIGH NON-CREDIT ESL READING/WRITING

0 Unit/3 hours laboratory. Non-Credit Course. Recommended: Completion of ESL 713 OR Qualifying Score on NC ESL Writing Assessment.
Description: This class is for non-native speakers of English with limited ability to function independently in English in everyday situations. Particular emphasis on reading and writing skills needed in a variety of academic, vocational, and community settings.
Exempt From Repeat Provisions

ESL 715 LOW INTERMEDIATE NON-CREDIT ENGLISH AS A SECOND LANGUAGE

0 Unit/5.5 hours lecture. Non-Credit Course.
Description: Intermediate-Low, Non-Credit English as a Second Language is for non-native speakers of English with the ability to function independently in everyday situations using English.
Exempt From Repeat Provisions

ESL 716 HIGH INTERMEDIATE NON-CREDIT ENGLISH AS A SECOND LANGUAGE

0 Unit/5.5 hours lecture. Non-Credit Course.
Description: Intermediate-High, Non-Credit English as a Second Language is for non-native speakers of English with the ability to function independently in English in professional, academic and community settings.
Exempt From Repeat Provisions

ESL 716CP INTERMEDIATE NON-CREDIT ESL CONVERSATION/PRONUNCIATION

0 Unit/3 hours lecture. Non-Credit Course. Recommended: Course Completion of ESL 716 or qualifying placement.
Description: This class is for non-native speakers of English with the ability to function independently using English in most contexts. Particular emphasis on vocabulary development, pronunciation and oral language skills needed for effective communication in academic, vocational, and community settings.
Exempt From Repeat Provisions

ESL 716RW INTERMEDIATE NON-CREDIT ESL READING/WRITING

0 Unit/3 hours laboratory. Non-Credit Course. Recommended: Course completion of ESL 714RW or ESL 715 or ESL 715W OR Qualifying Score on NC ESL Writing Assessment.
Description: This class is for non-native speakers of English with the ability to function independently in English in most contexts. Particular emphasis on reading and writing skills needed to be effective in academic, vocational, and community settings.
Exempt From Repeat Provisions

ESL 722 ESL COMPUTER LITERACY

0 Unit/1 hour lecture, 2 hours laboratory. Non-Credit Course. Recommended: Course Eligibility for ESL 714.
Description: This is a course for ESL students who have little or no experience with computers. Students use operating systems, word processing, the Internet, and email, as they develop language skills.This ESL computer course includes basic reading, vocabulary, study and test-taking strategies, and written and oral communication skills.
Exempt From Repeat Provisions

ESL 724 VOCATIONAL ENGLISH FOR SPEAKERS OF OTHER LANGUAGES

0 Unit/3 hours lecture. Non-Credit Course. Recommended: Course Completion of ESL 714Course Completion of ESL 714Course Completion of ESL 714Course Completion of ESL 714Course Completion of ESL 714.
Description: Provides English language development and cultural preparation of intermediate and advanced level non-native speakers for employment. Multi-level instruction includes group activities in listening, speaking, reading and writing for the workplace. Enrollment is open throughout the semester on a space available basis.
Exempt From Repeat Provisions

ESL 732 ESL FOR COMPUTER STUDIES

0 Unit/1.5 hours lecture. Non-Credit Course. Recommended: Eligibility for ESL 716.
Description: This is a course for ESL students who are interested in expanding their computer literacy skills. This ESL computer course includes reading, vocabulary, study and test-taking strategies, and written and oral communication skills. Students use Microsoft Office (Word, PowerPoint and Excel) as they develop language skills.
Exempt From Repeat Provisions

ESL 735 VOCATIONAL ENGLISH AS A SECOND LANGUAGE FOR CULINARY ARTS

0 Unit/3 hours lecture. Non-Credit Course. Recommended: Course Eligibility for ESL 716.
Description: This course will provide a foundation for non-native English speaking students for 4 introductory Culinary Arts classes. Students will become familiar with basic culinary and food safety vocabulary; learn reading, writing and test-taking skills; and practice oral communication skills necessary for the professional culinary environment.
Exempt From Repeat Provisions

ESL 753 PRACTICAL ESL FOR EARLY CHILDHOOD PROFESSIONALS

0 Unit/3 hours lecture. Non-Credit Course. Recommended: Course Eligibility for ESL 716.
Description: For non-native English speakers who are preparing to work with young children ages 0 -12. This class provides practice in the reading, writing, listening and speaking skills used in childcare and early childhood educational settings.
Exempt From Repeat Provisions

ESL 770 ESL SUPERVISED TUTORING

0 Unit/10 hours by arrangement. Non-Credit Course.
Description: Students will receive supplemental instruction in English language skills. Supports all credit and noncredit ESL classes.
Exempt From Repeat Provisions

ESL 781 TRANSITIONAL READING/WRITING/GRAMMAR FOR NC ESL STUDENTS

0 Unit/9 hours lecture. Non-Credit Course. Recommended: Qualifying Test Score on ESL Placement Test; OR Course Completion of ESL 715.
Description: A low-intermediate reading, writing, and grammar course that focuses on the development of academic reading and writing skills. Particular emphasis on campus resources and programs needed for academic success. Reading instruction will focus on comprehension, critical thinking, vocabulary and rate. Writing instruction will include paragraph structure, an introduction to multi-paragraph writing, and grammar in context. Designed to prepare non-native speakers of English for the ESL credit pathway.
Exempt From Repeat Provisions

ESL 781A LOW INTERM READ/WRIT/GRAMM FOR TRANSITIONAL NC ESL PT 1

0 Unit/4.5 hours lecture. Non-Credit Course. Recommended: Qualifying Test Score on ESL Placement Test; OR Course Completion of ESL 714.
Description: The first half of a low-intermediate reading, writing, and grammar course that focuses on the development of academic reading and writing skills. Particular emphasis on campus resources and programs needed for academic success. Reading instruction will focus on comprehension, critical thinking, vocabulary and rate. Writing instruction will include paragraph structure, an introduction to multi-paragraph writing, and grammar in context. Designed to prepare non-native speakers of English for the ESL credit pathway.
Exempt From Repeat Provisions

ESL 781B LOW INTERM READ/WRIT/GRAMM FOR TRANSITIONAL NC ESL PT 2

0 Unit/4.5 hours lecture. Non-Credit Course. Recommended: Qualifying Test Score on ESL Placement Test; OR Course Completion of ESL 714; OR ESL 781A.
Description: The second half of a low-intermediate reading, writing, and grammar course that focuses on the development of academic reading and writing skills. Particular emphasis on campus resources and programs needed for academic success. Reading instruction will focus on comprehension, critical thinking, vocabulary and

rate. Writing instruction will include paragraph structure, an introduction to multi-paragraph writing, and grammar in context. Designed for non-native speakers of English.
Exempt From Repeat Provisions

ENTREPRENEURSHIP (ESHIP)

ESHIP 101 INNOVATION

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Evaluate the skills, tools, and techniques to support brainstorming and creativity. Assess the methodology behind the inception and growth of ideas, concepts, and innovations. Apply social and cultural insights to creative inspiration, product development, idea generation, and venture creation.

ESHIP 106 VENTURE LAUNCH

(Formerly BMG 100) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of ESHIP 101.
Description: Apply the entrepreneurial decision-making process and the lean launch / customer discovery process to the real-world development and assessment of new opportunities, business models, and ventures.

ESHIP 115 FINANCIAL BASICS AND CASH FLOW

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course introduces the overall financial basics to run a business. Includes, cash flow management, forecasting, financial record keeping needed for tax reporting, examining break-even analysis, and learning how to read financial results to make decisions.

ESHIP 116 ETHICS, RESPONSIBILITY, AND SUSTAINABILITY

1.5 Units/1.5 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Promote responsible corporate behavior by focusing on the social, ethical, and environmental impacts of business activities. Distinguish among the issues, motivations, and strategies unique to short-term profitability and long-term sustainability.

ESHIP 117 COMMUNICATIONS FOR START-UPS

1.5 Units/1.5 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Craft and develop an effective narrative and story to pitch the venture idea. Determine how to successfully communicate concepts and goals to various stakeholders and influencers throughout the product life cycle.

ENVIRONMENTAL SCIENCE (ENVS)

ENVS 8 INTRODUCTION TO GLOBAL CLIMATE CHANGE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A and: Course Completion of one or more of the following courses: ENVS 12, GEOG 4, GEOL 1 or METRO 10.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU area B1;IGETC area 5A*
Description: This course will explore the science of climate change including: evidence for climate change, global atmospheric and sea circulation, the factors causing climate to change, how climate has changed and how scientists study past climates and use models, observations, data, and theory to make predictions about future climate, and the possible consequences of climate change for our planet.

ENVS 12 INTRODUCTION TO ENVIRONMENTAL SCIENCE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Completion of or concurrent enrollment in ENGL 100 or ESL 100. Eligibility for ENGL 1A. .
Transferability: CSU;UC.
GE: *AA/AS areas C,H;CSU area B1;IGETC area 5A*
Description: Introduction to environmental issues from a scientific perspective, focusing on physical, chemical, and biological processes within the Earth system, the interaction between humans and these processes, and the role of science in finding sustainable solutions. Topics include ecological principles, biodiversity, climate change, sustainability, renewable and non-renewable energy, water resources, air and water pollution, and solid waste management.

ENVIRONMENTAL STUDIES (ENVST)

ENVST 40 ENVIRONMENTAL FORUM

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: A series of lectures, readings, and classroom discussions on topics of environmental concern including an introduction to the field of environmental studies, four to six guest lectures on various environmental topics, and an introduction to employment opportunities within the field. Presentations given by guest lecturers. Topics change from semester to semester.

EQUINE SCIENCE (EQSCI)

EQSCI 25 EQUINE SCIENCE

(Formerly AG 25) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: A survey of the equine industry. Selection, feeding, breeding, facilities, handling and diseases of horses will be emphasized to ensure scientifically based management decisions.

EQSCI 51 EQUINE NUTRITION

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course will enable a student to develop a horse feeding program with regard to horse type, level of activity, available feedstuffs, cost factors and basic nutritional requirements. Feeding for maintenance, growth and reproduction as well as feeding methods.

EQSCI 52 EQUINE HEALTH

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Course introduces the diseases and lameness associated with the musculoskeletal system, as well as diseases of the respiratory, digestive, neurological, reproductive and other major organ systems of the horse. Emphasis is on preventive maintenance and necessary managerial practices needed to keep the equine athlete, broodmare or family horse in good health. Field trips may be required.

EQSCI 53 EQUINE REPRODUCTION

(Formerly AG 114) 1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course combines the study of basic genetic principles with the study of the anatomical and physiological aspects of reproduction as they relate to equine reproduction. Genetic principles to be emphasized include basic inheritance, selection techniques, mating systems, heterosis, and performance evaluation. Reproductive aspects to include endocrinology, estrous cycles, mating behaviors, gametogenesis, conception, gestation, parturition, and maternal behaviors. Artificial insemination, embryo manipulation, and current innovations in productive biotechnology will also be examined.

EQSCI 60 EQUINE ANATOMY AND PHYSIOLOGY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course investigates the gross anatomy and physiology of the horse. All the major body organs will be studied in relation to their function in the horse.

EQSCI 80 EQUINE AND STABLE MANAGEMENT

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of EQSCI 25. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course will provide students an understanding of management considerations to be better prepared for running and/or managing an equine enterprise. Topics covered will be: horse facilities; health care; equipment and tack; trailering horses; conditioning; pasture management; and managing the stalled horse. Field trips are an integral part of this course.

EQSCI 101 HORSE HANDLING SKILLS

(Formerly AG 190) 1.5 Units/1 hour lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Introduction to fundamental handling of the horse. Covers horse behavioral patterns and safe horse

handling skills, such as lunging and round pen training. Also explores the safe interaction of horse and rider as it relates to grooming, saddling, bridling and interpreting equine behavior.

EQSCI 102 BEGINNING HORSEMANSHIP AND RIDING

(Formerly EQSCI 102A) 1.5 Units/1.5 hours lecture, 0.5 hour laboratory. Grade or P/NP. Recommended: Course Completion of EQSCI 101.
Description: Introduction to grooming, saddling, bridling and riding skills. Acquire basic knowledge of equipment and safety procedures. Use of riding aids and transitions.

EQSCI 120 INTRODUCTION TO EQUINE ASSISTED ACTIVITIES AND THERAPIES

(Formerly AG 110) 1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: An overview of the history, organization, principles and procedures in Equine Assisted Activities and Therapies (EAAT) including therapeutic horsemanship programs. Skills and training required for staff, instructors, therapists, and volunteers will be covered in this course. The student will also learn selection criteria and management topics relating to horse care and use in EAAT programs.

EQSCI 121 APPLIED PROCEDURES: ADAPTED RIDING/THERAPEUTIC HORSEMANSHIP

(Formerly AG 111) 1.5 Units/1 hour lecture, 2 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of EQSCI 120. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Theory and direct, practical application of the skills necessary to assist in providing a safe, challenging and effective adapted riding and/or therapeutic horsemanship experience to participants with disabilities who come for lessons. Familiarization with the use of adaptive equipment, saddle/tack fitting and lesson structure and activities. Assessment, selection, handling, training, and management practices of program horses.

EQSCI 122 EQUINE ASSISTED ACTIVITIES AND THERAPIES PROGRAM MANAGEMENT

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of EQSCI 120. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: A survey course designed for the individual interested in working in or managing an Equine Assisted Activities and Therapies (EAAT). Includes understanding the client base: what populations may be served, and how their needs can most effectively be addressed in the EAAT setting. Aspects of business organization, physical plant operations, horse management, funding/finance management, personnel procedures, and inter-agency relations will be presented.

EQSCI 151 INTRODUCTION TO EQUINE ACUPRESSURE AND MASSAGE

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: An introduction to equine acupressure and massage methods that improve performance and behavior in the horse.

EQSCI 170 FARRIER SCIENCE

(Formerly AG 166A) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Basic anatomy and physiology of the horse's limbs and feet. Causes, treatment and prevention of common lameness problems, horseshoeing terminology, and guidelines for assessing proper horseshoeing and

hoof trimming.

FASHION STUDIES (FASH)

FASH 8 INTRODUCTORY TEXTILES

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
Description: The study of natural, man-made, and synthetic fibers including their characteristics, use, and care for clothing and home furnishings. Topics include yarn and fabric identification, construction, dyeing and printing processes, finishes, fabric testing, performance and serviceability, and government regulations.

FASH 52.2 VISUAL MERCHANDISING

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: The study of creative fashion exhibits and window displays used by merchandisers. Students study all aspects of fashion display, including design principles, color, lighting, signage, graphics, fixtures, props, accessories, and mannequins.

FASH 53 FASHION ANALYSIS

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Study of color, line, and design principles related to clothing and appearance. Wardrobe planning and management, figure analysis, and accessorizing and grooming techniques provided to assist in image development. Social and psychological aspects of clothing, fashion cycles and trends, and consumer issues related to the selection and use of clothing included.

FASH 56 FASHION DESIGN AND ILLUSTRATION

(Formerly FASH 56A) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: An introduction to the aesthetic and functional principles of fashion and technical drawing. Principles of drawing using croquis to present designs and technical illustration techniques used for garment production.

FASH 60 DRAPED DESIGN

(Formerly CLTX 60) 2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of FASH 70A.
Transferability: CSU.
Description: Students will use a dress form and draping techniques to create original designs without patterns. Lab dress forms available for those students who do not own one. Construction of a garment from an original draped design required.

FASH 62A FLAT PATTERN DESIGN 1

(Formerly CLTX 50A) 2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of FASH 70A. Recommended: Course Completion of FASH 60.
Transferability: CSU.
Description: The student will learn the Flat Pattern Method in which a basic fitting pattern is developed and used to create patterns for original, individual designs. Patterns for tops, skirts, dresses, sleeves, and collars are discussed. Construction of a garment from an original design and pattern required.

FASH 70A CLOTHING CONSTRUCTION 1

(Formerly CLTX 70A) 1.5-3 Units/Up to 2 hours lecture, 3.5 hours laboratory. Grade or P/NP.
Transferability: CSU.
Description: This clothing construction class is designed to provide the student with basic sewing skills, fitting and alteration techniques of a commercial pattern, knowledge of basic sewing equipment, and pressing techniques appropriate for the pattern design and fabric selected. Projects and samples required.

FASH 70B CLOTHING CONSTRUCTION 2

(Formerly CLTX 70B) 1.5-3 Units/Up to 2 hours lecture, 3.5 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of FASH 70A.
Transferability: CSU.
Description: This clothing construction class is designed to provide the student with continued support to build on skills learned in Fashion 70A while introducing them to intermediate to advanced sewing skills to develop competence in working with patterns, specialty fabrics, napped fabrics and more complex sewing techniques. Projects and samples required.

FASH 106 ALTERATIONS OF READYMADE CLOTHES

(Formerly FASH 75) 1 Unit/1 hour lecture, 0.5 hour laboratory. Grade or P/NP. Recommended: Course Completion of FASH 70A.
Description: Techniques in fitting methods and altering of women's, men's, and children's ready-to-wear clothing.

FASH 121A SEWING WITH KNITS: BASIC TEE SHIRTS

0.5 Unit/0.5 hour lecture, 0.67 hour laboratory. Grade or P/NP. Recommended: Course Completion of FASH 70A.
Description: Basic tee shirt construction, including neckline variations, stretch hem techniques and use of ribbing.

FASH 121B ADVANCED SEWING WITH KNITS

0.5 Unit/0.33 hour lecture, 0.75 hour laboratory. Grade or P/NP. Prerequisite: Course Completion of FASH 121A.
Description: Advanced garment construction with knits.

FASH 139 FASHION ENTREPRENEURSHIP

(Formerly FASH 58) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: An in-depth study of the business of apparel, sewn product, and related small fashion enterprises, including legal aspects of business ownership.

FASH 151 FASHION APPAREL AND ACCESSORIES

(Formerly FASH 51) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: As preparation for a career in fashion retailing, this course introduces students to all aspects of fashion through exploration of current trends and product information for ready-to-wear apparel, accessories, and

cosmetics.

FASH 152 FASHION SHOW

2 Units/2 hours lecture. Grade or P/NP. Prerequisite: Concurrent Enrollment in FASH 152L. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: The study of how fashion shows sell merchandise. Students discuss and plan all aspects of the show including the staging, lighting, music, models, modeling, commentary, and rehearsals in preparation to produce a full-scale fashion show.

FASH 152L FASHION SHOW PRODUCTION LAB

0.5 Unit/1.5 hours laboratory. Grade or P/NP. Prerequisite: Concurrent Enrollment in FASH 152. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: A supervised laboratory for students enrolled in FASH 152, providing the required time, guidance, and lab equipment to collaborate and complete projects associated with the production for a fashion show.

FASH 770 FASHION SKILLS LAB

0 Unit/4 hours by arrangement. Non-Credit Course.
Description: An open-entry, open-exit class for students who seek to expand upon their knowledge and skills in fashion. Students will build on the skills developed in referring course(s) in Fashion Studies such as FASH 8, FASH 52.2, FASH 53, FASH 56, FASH 60, FASH 62A, FASH 70A, FASH 70B, FASH 106, FASH 121A, FASH 121B, FASH 139, FASH 151, FASH 152, and FASH 152L.
Exempt From Repeat Provisions

FIRE TECHNOLOGY (FIRE)

FIRE 50 ETHICAL LEADERSHIP IN THE CLASSROOM

0.25 Unit/3 hours lecture, 5 hours laboratory for 1 week. P/NP Only. Recommended: Course Completion of FIRE 71 AND Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course provides the knowledge and skills needed to identify the value of ethical behavior in instructional settings, describe how ethical norms influence individual ethics, identify a personal ethical perspective and core values and how they impact communication and ethical decision making, and make an ethical decision using an ethical decision making model, in order to assist in making ethical decisions when faced with an ethical dilemma in an instructional setting and carry out the roles and responsibilities of an State Fire Training (SFT) instructor in an ethical manner. Upon successful completion, the student will be awarded a certificate from the State Board of Fire Services (Pass/No pass).

FIRE 61 FIRE INVESTIGATION

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of FIRE 72. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course provides information on securing the fire scene and determining the origin and cause of

the fire. Topics include responsibilities of a fire investigator, securing the fire ground, conducting an exterior and interior survey, analyzing fire patterns, interpreting individual fire patterns, discriminating the effects of explosions, examining and removing fire debris, reconstructing the area of origin and inspecting the performance of building systems. Upon successful completion of the course, the student will be awarded a Fire Investigation IA certificate from the State Board of Fire Services (SBFS).

FIRE 71 FIRE PROTECTION ORGANIZATION

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course provides an introduction to fire protection; career opportunities in the fire service and related fields; history of fire protection; the organization and function to public and private fire protection services, fire departments as a part of local government; fire service nomenclature; specific fire protection functions; basic fire chemistry and behavior; introduction to fire protection systems and an introduction to strategy and tactics and building construction.

FIRE 72 FIRE BEHAVIOR AND COMBUSTION

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Theory and fundamentals of fire ignition, extension, behavior and control. An in-depth study of fire chemistry, fire characteristics of materials, extinguishing and fire control techniques.

FIRE 73 FIRE PREVENTION TECHNOLOGY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigations.

FIRE 74 FIRE PROTECTION EQUIPMENT AND SYSTEMS

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: An in-depth study of the systems used to provide built-in fire protection to structures including, water systems, fire detection and alarm systems, smoke management systems, fire pumps, automatic fire sprinkler systems, residential fire sprinkler systems, standpipe and hose systems, special extinguishing systems and portable fire extinguishers.

FIRE 76 BUILDING CONSTRUCTION FOR FIRE PROTECTION

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This is a State mandated core course that identifies the different types of elements of construction and design that effect structural firefighting. This course is the study of the components of building construction that relate to fire safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at fires. The development and evolution of building and fire codes, and studies in relationship to past fires in residential, commercial, and industrial occupancies. There is one site visit required for both classroom and on-line offerings.

FIRE 77 HAZARDOUS MATERIALS FOR PUBLIC SAFETY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: A comprehensive study of the emergency response to hazardous materials (hazmat) incidents. Includes basic hazardous materials legal requirements; hazard recognition and safety; terrorism recognition and response; use of the Emergency Response Guidebook (ERG); hazardous materials properties and effects; hazardous material classification; chemical monitoring equipment; reference materials and databases; isolation and notification requirements; incident planning, organization, command and scene management; response training levels, tactics and strategies; Personal Protective Equipment (PPE); countermeasures; protective actions; decontamination, documentation, and disposal requirements. Students who are successful in the requirements of the course and state testing will receive certificates in Hazardous Materials First Responder Operations (FRO), Decontamination, Weapons of Mass Destruction (WMD), and Incident Command from the California Specialized Training Institute (CSTI). This course certified by the Commission on Peace Officer Standards and Training (P.O.S.T.) for the State of California

FIRE 78 PRINCIPLES OF FIRE AND EMERGENCY SERVICES SAFETY-SURVIVAL

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavioral change throughout the emergency services regarding first responder deaths and injuries.

FIRE 82 FIRE INSPECTIONS AND INVESTIGATIONS FOR COMPANY OFFICERS

(Formerly FIRE 272) 1 Unit/2 hours lecture, 6 hours laboratory for 5 weeks. P/NP Only. Prerequisite: Course Completion of FIRE 208.1 (Completion of basic fire academy or equivalent as determined by the Dean of Public Safety Instruction). Recommended: Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates.
Transferability: CSU.
Description: An overview of the information necessary to conduct inspections, identify hazards and address violations, performing a fire investigation to determine preliminary cause and to secure the incident scene and preserve evidence. Upon successful completion, the student will be awarded a completion certificate from the State Board of Fire Services.

FIRE 83 ALL RISK COMMAND OPERATIONS FOR COMPANY OFFICERS

1 Unit/2 hours lecture, 8 hours laboratory for 4 weeks. P/NP Only. Prerequisite: Course Completion of FIRE 71. Recommended: Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates.
Transferability: CSU.
Description: An overview of the information necessary to conduct incident size-up and the development and implementation of initial plan of action involving single and multi-unit operations for various types of emergency incidents as well as mitigating the situation following agency safety procedures, conducting pre-incident planning and developing and conducting a post-incident analysis. Upon successful completion, the student will be awarded a completion certificate from the State Board of Fire Services.

FIRE 84 WILDLAND INCIDENT OPERATIONS FOR COMPANY OFFICERS

1 Unit/2 hours lecture, 8 hours laboratory for 4 weeks. P/NP Only. Prerequisite: Course Completion of FIRE 208.1. Recommended: Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates.
Transferability: CSU.
Description: An overview of the information necessary to evaluate and report incident conditions, analyze incident needs, develop and implement a plan of action to deploy incident resources, completing all operations to suppress a wildland fire, establishing an incident command post, creating an Incident Action Plan (IAP), and completing incident records and reports. Upon successful completion, the student will be awarded a completion certificate from the State Board of Fire Services.

FIRE 99I FIRE TECHNOLOGY OCCUPATIONAL WORK EXPERIENCE INTERNSHIP

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of FIRE 208.1. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an application, interview, placement and verification of employment because intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Fire Occupational Work Experience Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship placement; and supervised employment of students that extends to the job site classroom learning that relates to the students' educational or occupational goal in Fire Technology. Students eligible for internships will have declared a major in Fire Technology, have completed courses in their major, or have acquired a high level of skill in their discipline, and are ready for on-the-job experience in a paid position. Students will acquire new knowledge, skills, and abilities to prepare for a career in Fire Technology.
16 Units Total (WrxEx only)

FIRE 107.1 VOLUNTEER FIREFIGHTER SKILLS

1.5 Units/0.5 hour lecture, 3 hours laboratory. P/NP Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must pass a criminal background check as required by the respective Sonoma County Fire agency where instruction occurs and possession of a current Class C California Driver's License. medical history statement and cardiac risk assessment signed a by a physician for participation in physical activities including climbing, carrying and lifting heavy equipment (65-100 lbs.), rescue/body drags (165 lbs.) and live fire exercises (crawling and pulling pressurized hose lines).
Description: This is a basic operations course designed to provide the student with an overview of both manipulative and technical firefighting operations and procedures necessary to safely function as a volunteer firefighter. This course is designed to be a pathway for meeting many of the requirements for California State Firefighter I certification.

FIRE 107.2 ADVANCED VOLUNTEER FIREFIGHTER SKILLS

4 Units/3.25 hours lecture, 2.25 hours laboratory. P/NP Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: An extended format course of advanced operations designed to provide the student with an overview of both manipulative and technical firefighting operations and procedures necessary to safely function as a volunteer firefighter. This course is designed to be a pathway to meet many of the requirements for California State Firefighter I certification including Hazardous Materials First Responder, State Fire Training Confined Space Awareness, ICS-200, Title 22 First Aid and National Wildfire Coordinating Group S-130, 131 and 190.

FIRE 206 WILDLAND FIREFIGHTER ACADEMY

1.25 Units/4 hours by arrangement. P/NP Only. Prerequisite: Course Completion of FIRE 208.1 or equivalent as determined by the Dean of Public Safety Instruction.
Description: An intensive study of wildland firefighting, fire control strategy and tactics, mobile attack, wildland hose lays and handline construction and wildland safety and survival, and a field skills day is included with live fire operations. Course also includes two overnight sessions. Students must adhere to the same dress, rules and conduct as prescribed in the Firefighter I Academy. Upon successful completion, students will be eligible to apply for a CAL FIRE Basic Firefighter Certificate.
Legally Mandated Repetition

FIRE 208 INTRODUCTION TO FIREFIGHTER I ACADEMY

1.5 Units/1.25 hours lecture, 0.75 hour laboratory. P/NP Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Current Class C California Driver License. A Fire Program Medical Clearance Statement signed by a physician for participation in a rigorous fitness program and other physical activities including running a mile and a half, climbing, rappelling, carrying and lifting heavy equipment (65-100 lbs.), rescue/body drags (165 lbs.) and live fire exercises (crawling and pulling pressurized hose lines). Said statement is valid one year from the date of endorsement.
Description: This course is designed to prepare the student with the basic knowledge and skills necessary to succeed in the Firefighter I Academy and is a prerequisite for that class.

FIRE 208.1 FIREFIGHTER I ACADEMY

15 Units/8 hours lecture, 16 hours laboratory. Grade Only. Prerequisite: Course Completion of FIRE 71 and EMC 100 and FIRE 208 (or their equivalent as determined by the Dean of Public Safety Instruction). Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Current Class "C" California Driver License. A Fire Program Medical Clearance Statement signed by a physician for participation in a rigorous fitness program and other physical activities including climbing, rappelling, carrying and lifting heavy equipment (65-100 lbs.), rescue/body drags (165 lbs.) and live fire exercises (crawling and pulling pressurized hose lines). Said statement is valid one year from the date of endorsement.
Description: An intensive series of skills and knowledge needed for the entry level professional firefighter to perform his/her duties safely, effectively and competently. Combined with Emergency Medical Technician, meet the educational requirements for Firefighter I certification as established by the State Board of Fire Services. Course also includes two overnight sessions. Upon successful completion of the wildland component, students also receive a CAL FIRE Basic Firefighter Certificate.

FIRE 208.4 FIREFIGHTER 1 CAPSTONE TRAINING

1 Unit/8.75 hours laboratory for 6 weeks. P/NP Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course prepares students to meet the State Fire Training (SFT) requirements for Firefighter I (FFI) including the capstone knowledge and skills necessary to pass FFI. Upon successful completion, students will receive a pass letter from SFT and a FFI pass certificate from the college.
Legally Mandated Repetition

FIRE 208.5 FIREFIGHTER II CAPSTONE TRAINING

0.5 Unit/2 hours lecture, 10 hours laboratory for 2 weeks. Grade Only. Limits on enrollment: Completion of all SFT Lecture and Activity requirements as identified in the FFII Course Plan. Must possess a STT FFI certificate.
Description: This course prepares students to meet the State Fire Training (SFT) requirements for Firefighter II (FFII) including the capstone knowledge and skills necessary to pass. Upon successful completion, students will receive a pass letter from SFT.

FIRE 209 FIRE ORIGIN AND CAUSE DETERMINATION

1.5 Units/1.25 hours lecture, 1 hour laboratory. P/NP Only. Recommended: Course Completion of FIRE 71 AND Eligibility for ENGL 100 or ESL 100.
Description: This course covers the principles of fire investigation and the roles and responsibilities of a fire investigator, fire investigation and arson laws, the legal aspects of fire investigation, search and seizure procedures, documentation of fire scenes, evidence collection, fire behavior and chemistry and its effect on fire investigations, accidental ignition sources, principles of electricity and electrical ignition sources, arson fire indicators, incendiary devices, vehicle, structural and wildland fire investigation, the effect of explosions on fire investigations. Upon successful completion of the course, the student is awarded a Fire Investigation 1A certificate from the State Board of Fire Services.

FIRE 219 S-290 INTERMEDIATE WILDLAND FIRE BEHAVIOR

0.5 Unit/32 hours laboratory for 1 week. P/NP Only. Prerequisite: Course Completion of FIRE 71. Limits on enrollment: S-190 or equivalent
Description: An intermediate course designed to provide the student with wildland fire behavior knowledge applicable for safe and effective wildland fire management activities. Upon successful completion, students will be awarded a S-290 certificate from the State Board of Fire Services .

FIRE 241 DRIVER OPERATOR 1A

1.5 Units/1.25 hours lecture, 1 hour laboratory. P/NP Only. Limits on enrollment: Enrollment in this course is limited to students who currently possess a valid Class C California driver license as required by the California Vehicle Code.
Description: Provide students with the information on fire apparatus preventive maintenance and driving/operating. Topics include routine tests, inspections and servicing functions, operation, backing, maneuvering and turning apparatus under a variety of conditions; and operation of all fixed systems on a fire apparatus. The course is based on the National Fire Protection Association (NFPA) 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications. The course fulfills the requirements for a Class C Firefighter Endorsement. Upon successful completion, students will be awarded a completion certificate from the State Board of Fire Services.

FIRE 258 FIRE APPARATUS 1B, PUMPING APPARATUS OPERATIONS

1 Unit/1.75 hours lecture, 6.25 hours laboratory for 5 weeks. P/NP Only. Recommended: Course Completion of FIRE 71 or equivalent. Limits on enrollment: Must have a valid Class C California State Driver's license and completion of Office of the State Fire Marshal Firefighter I and Driver Operator IA training as determined by the Dean of Public Safety Instruction.
Description: This course provides information on pumping apparatus, preventive maintenance and operations. Topics include routine tests, inspections and servicing functions; producing hand, master and foam fire streams, relay pump operations and supplying water to sprinkler and standpipe systems. This course is based on National Fire Protection Administration (NFPA) 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications. Upon successful completion, students will be awarded a completion certificate from the State Board of Fire Services.

FIRE 270.1 ALL RISK COMMAND OPERATIONS FOR COMPANY OFFICERS

1 Unit/2 hours lecture, 8 hours laboratory for 4 weeks. P/NP Only. Prerequisite: Course Completion of FIRE 71. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: An overview of the information necessary to conduct incident size-up and the development and implementation of initial plans of action involving single and multiunit operations for various types of emergency

incidents as well as mitigating the situation following agency safety procedures, conducting pre-incident planning and developing and conducting a post-incident analysis. Upon successful completion, the student will be awarded a completion certificate from the State Board of Fire Services.

FIRE 270.2 WILDLAND INCIDENT OPERATIONS FOR COMPANY OFFICERS

1 Unit/2 hours lecture, 8 hours laboratory for 4 weeks. P/NP Only. Prerequisite: Course Completion of FIRE 208.1. Recommended: Eligibility for ENGL 100 or ESL 100.

Description: An overview of the information necessary to evaluate and report incident conditions, analyze incident needs, develop and implement a plan of action to deploy incident resources, completing all operations to suppress a wildland fire, establishing an incident command post, creating an Incident Action Plan (IAP), and completing incident records and reports. Upon successful completion, the student will be awarded a completion certificate from the State Board of Fire Services.

FIRE 270.3 HAZARDOUS MATERIALS INCIDENT COMMANDER

2 Units/2.25 hours lecture. P/NP Only. Prerequisite: Course Completion of FIRE 71. Recommended: Eligibility for ENGL 100 or ESL 100.

Description: A study of the emergency response to Hazardous Material (Hazmat) incidents with an emphasis on the role of the Incident Commander (IC) as defined by OSHA Hazardous Waste Operations and Emergency Response (Hazwoper) regulations, including basic hazardous materials chemistry, regulations, the tactics and strategy of mitigation, decontamination, and scene management. Upon successful completion, students will receive a certificate in Hazardous Materials IC from the California Specialized Training Institute (CSTI).

FIRE 271.1 HUMAN RESOURCE MANAGEMENT FOR COMPANY OFFICERS

1 Unit/2 hours lecture, 8 hours laboratory for 4 weeks. Grade or P/NP. Prerequisite: Course Completion of FIRE 71. Recommended: Eligibility for ENGL 100 or ESL 100.

Description: An overview of the use of human resources to accomplish assignments, evaluating members performance, supervising personnel and integrating health and safety plans, policies and procedures into daily activities as well as the emergency scene. Upon successful completion, the student will be awarded a completion certificate from the State Board of Fire Services.

FIRE 271.2 FIRE ADMINISTRATION FOR COMPANY OFFICERS

1 Unit/10 hours lecture for 2 weeks. P/NP Only. Prerequisite: Course Completion of FIRE 71 (Completion of basic fire academy or equivalent as determined by the Dean of Public Safety Instruction.). Recommended: Eligibility for ENGL 100 or ESL 100.

Description: An overview of the general administrative functions and the implementation of department policies and procedures and conveying the fire department's role, image and mission to the public. Upon successful completion, the student will be awarded a completion certificate from the State Board of Fire Services.

FIRE 272 FIRE INSPECTIONS AND INVESTIGATIONS FOR COMPANY OFFICERS

1 Unit/2 hours lecture, 6 hours laboratory for 5 weeks. P/NP Only. Prerequisite: Course Completion of FIRE 208.1 (Completion of basic fire academy or equivalent as determined by the Dean of Public Safety Instruction). Recommended: Eligibility for ENGL 100 or ESL 100.

Description: An overview of the information necessary to conduct inspections, identify hazards and address violations, performing a fire investigation to determine preliminary cause and to secure the incident scene and preserve evidence. Upon successful completion, the student will be awarded a completion certificate from the State Board of Fire Services.

FIRE 273.1 FIRE SERVICE INSTRUCTOR I

1 Unit/2 hours lecture, 8 hours laboratory for 4 weeks. P/NP Only. Prerequisite: Course Completion of FIRE 71 (Completion of basic fire academy or equivalent as determined by the Dean of Public Safety Instruction.). Recommended: Eligibility for ENGL 100 or ESL 100.

Description: This course provides the skills and knowledge necessary for the entry level professional instructor to perform his or her duties safely, effectively, and competently. The curriculum is based on the 2012 edition of National Fire Protection Association (NFPA) 1041 Standard for Fire Service Instructor Professional Qualifications. At the end of this course, candidates for Fire Service Instructor I certification will be able to teach and deliver instruction from a prepared lesson plan utilizing instructional aids and evaluation instruments. The Fire Service Instructor I will also be able to adapt a lesson plan and complete the reporting requirements to the local jurisdiction. This Company Officer course is one of a series required for Company Officer Certification by California State Fire Training. Upon successful completion, the student will be eligible to apply for a completion certificate from the State Board of Fire Services.

FIRE 273.2 FIRE SERVICE INSTRUCTOR II INSTRUCTIONAL DEVELOPMENT

1 Unit/1.5 hours lecture, 6.5 hours laboratory for 5 weeks. P/NP Only. Prerequisite: Course Completion of FIRE 273.1. Recommended: Eligibility for ENGL 100 or ESL 100.

Description: This course provides the skills and knowledge necessary for the intermediate level professional instructor to perform his or her duties safely, effectively, and competently. The curriculum is based on the National Fire Protection Association (NFPA) 1041 Standard for Fire Service Instructor Professional Qualifications. At the end of this course, candidates for Fire Service Instructor II certification will be able to develop lesson plans and evaluation instruments, teach and deliver instruction, and evaluate and coach other instructors. The Fire Service Instructor II will also be able to analyze resources and formulate a program budget. Upon successful completion, the student will be awarded a completion certificate from the State Board of Fire Services.

FIRE 273.3 FIRE SERVICE INSTRUCTOR III INSTRUCTIONAL PROGRAM MANAGEMENT

1 Unit/2 hours lecture, 6 hours laboratory for 5 weeks. P/NP Only. Prerequisite: Course Completion of FIRE 273.2 or equivalent as determined by the Dean of Public Safety. Recommended: Eligibility for ENGL 100 or ESL 100.

Description: This course provides information on planning, developing and implementing comprehensive training programs and curricula. Topics include instructional development, program management, program and instructor evaluation and test reliability and validity. The curriculum is based on the 2015 edition of National Fire Protection Association (NFPA) 1041 Standard for Fire Service Instructor Professional Qualifications. Upon successful completion, the student will be awarded a completion certificate from the State Board of Fire Services.

FIRE 280 STRUCTURAL FIREFIGHTING DYNAMICS

0.25 Unit/3 hours lecture, 5 hours laboratory for 1 week. Grade or P/NP. Prerequisite: Course Completion of Fire 208.1.

Description: This course is designed to develop the fundamental skills necessary to combat structure fires by exposing students to real fire behavior scenarios. During the course, students will review topics such as flashover,

roll over, reading smoke, flow path and ventilation as it pertains to fire behavior and modern suppression techniques.

FIRE 283 S-219 FIRING OPERATIONS

0.5 Unit/2 hours lecture, 16 hours laboratory for 2 weeks. Grade or P/NP. Prerequisite: Course Completion of FIRE 71 (or FIRE 51). Limits on enrollment: Students must provide medical clearance and or a clearance letter from their agency. Must have the following Fire certificates: ICS-200, RT-130, S-230 and S-290.
Description: An intermediate course designed to meet the training needs of Firing Boss (FIRB) as outlined in the Wildland Fire Qualifications System Guide and the position Task Book developed for the position. Students will be engaged in strenuous, live firefighting activities working with hand tools in elevated temperatures often exceeding 90 degrees. Upon successful completion, students will be awarded an S-219 certificate from the State Board of Fire Services (SBFS).

FIRE 284 TRUCK ACADEMY OPERATIONS

1.5 Units/3 hours lecture, 17 hours laboratory for 4 weeks. Grade Only. Limits on enrollment: Possession of a State issued Firefighter I Certificate or equivalent as determined by the Dean of Public Safety
Description: An intermediate course designed for veteran firefighters or other interested students who wish to enhance their knowledge and ability as it pertains to fire ground truck operations, tactics and strategy. Basic building and roof construction, vertical and horizontal ventilation, forcible entry, positive and negative ventilation, search and rescue, thermal imaging technology, firefighter safety and survival, rapid intervention tactics, elevator rescue, vehicle extrication and other related truck company operations will be discussed.

FIRE 285 STRUCTURAL FIREFIGHTING IN LIVE-FIRE SIMULATORS

0.5 Unit/1 hour lecture, 5 hours laboratory for 4 weeks. P/NP Only. Prerequisite: Completion of FIRE 208.1 or equivalent as determined by the Dean of Public Safety. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course is designed to develop fundamental skills in combating structure fires by providing the students with a thorough understanding of fire behavior, ventilation procedures and techniques, interior and exterior fire attack using a live fire simulator. In many cases, this will be the firefighter's first exposure to live structural firefighting. Upon successful completion, the student will be awarded a completion certificate from the State Board of Fire Services.

FIRE 708 BASIC FIRE/EMC PRACTICES

0 Unit/6 hours by arrangement. Non-Credit Course.
Description: A skills development course designed to provide the emergency responder student with manipulative and technical operations and procedures. Cognitive and psychomotor skills will be evaluated to enhance training in fire fighting, extrication, rescue, and emergency care. Student may use computer lab or simulators, psychomotor skills practice and performance practice to meet the standards of the course.
Exempt From Repeat Provisions

FLORISTRY (FLORS)

FLORS 83A BEGINNING FLORAL DESIGN

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP.
Transferability: CSU.
Description: Fundamentals of design, techniques, and skills practiced in the florist industry. Includes designs, mechanics, guides to design; introduction to flower and foliage shapes and their use; cut flower care; corsage practice; containers and designer aids.

FLORS 83B INTERMEDIATE FLORAL DESIGN

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of FLORS 83A.
Transferability: CSU.
Description: Application of the fundamentals of theory, techniques, and skills developed in Basic Floral Design to more elaborate floral designs, containers, and flowers, with an emphasis on control of materials and speed.

FLORS 105 FLOWERS TO WEAR AND CARRY

1 Unit/1 hour lecture, 1 hour laboratory. Grade or P/NP. Prerequisite: Course Completion of FLORS 83A.
Description: Design and construction of floral arrangements to wear and carry including corsages, hand-held bouquets, boutonnieres, and wristlets. Includes a variety of techniques and materials.

FLORS 108 DISPLAY AND MERCHANDISING FOR RETAIL FLORISTS

1 Unit/1 hour lecture, 0.5 hour laboratory. Grade or P/NP.
Description: Visual merchandizing and display for retail florists. Presentation of the purpose, principles, fixtures and accessories for effective visual merchandising used by successful retail florists.

FLORS 112 WEDDING DESIGN

(Formerly FLORS 85) 2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of FLORS 83B.
Description: Principles, practices, and methods used by florists in designing and creating wedding arrangements.

FLORS 113 FLORAL TRIBUTES

(Formerly FLORS 93) 2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of FLORS 83B. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Application of design theory and the mechanics of floral arrangements for sympathy occasions. Includes design for casket covers, standing and flat sprays, set work, sympathy arrangements, and lid pieces. Delivery and set-up discussed.

FLORS 114 RETAIL FLOWER BUSINESS MANAGEMENT

(Formerly FLORS 94) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Aspects of owning/managing a flower business. Advertising and merchandising, refrigeration, shrinkage, wire services, simple bookkeeping, permits and licenses, and management and personnel procedures as applied to floral industry.

FLORS 116 IDENTIFICATION AND HANDLING OF FLOWERS, FOLIAGES AND PLANTS

2 Units/2 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of FLORS 83A.
Description: Identification, care and handling of fresh flowers, foliage, and plants for individuals interested in

working in the floral industry.

FLORS 183C ADVANCED FLORAL DESIGN

(Formerly FLORS 83C) 2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of FLORS 83B.
Description: Advanced design concepts including color theory, use of textures, and the practical application and construction of decorative and natural design styles. Introduction to the care and use of tropical flowers and foliages.

FLORS 187 EUROPEAN & ADVANCED CONTEMPORARY FLORAL DESIGN

(Formerly FLORS 87) 1 Unit/1 hour lecture, 1 hour laboratory. Grade or P/NP. Prerequisite: Course Completion of FLORS 83B.
Description: Principles and techniques used in the design and construction of European and advanced contemporary floral arrangements.

FOODS AND NUTRITION (FDNT)

FDNT 10 ELEMENTARY NUTRITION

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent and CSKLS 371.
Transferability: CSU;UC.
C-ID: NUTR 110
GE: *AA/AS area C;CSU area E*
Description: Introduction to the basic principles of nutrition and the relationship of the human diet to health and lifestyle related diseases. Descriptions of individual nutrients, optimal daily intakes, and food sources. Discussions of factors that influence nutrient bioavailability, results of nutrient deficiencies and excesses, consumer nutrition food issues, reliable sources of food and nutrition information.

FDNT 60 NUTRITION AND PHYSICAL FITNESS

1 Unit/1 hour lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Contemporary findings in nutrition specifically related to performance in athletics and exercise. Computer analysis of calorie and nutrient intake and application of the results to improve and enhance performance, energy level, and general well-being.

FDNT 61 NUTRITION ISSUES

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Current nutrition concepts and controversies. The changing American diet and its relation to longevity and quality of life. Safety and nutrition value of processed foods and government agencies responsible for food safety. A critical evaluation of U.S. dietary goals, health foods, and food advertising.

FDNT 62 NUTRITION AND DIET THERAPY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Eligibility for MATH 150A.
Transferability: CSU.
Description: Introduction to nutrition and its role in health, disease risk reduction and treatment of disease. Modification of the diet, nutrient intake and mode of nutrient delivery for stress conditions such as diabetes, intestinal tract disorders and diseases of the liver and kidneys. Intended for students in nursing and other health care fields.

FDNT 70 INTRODUCTION TO NUTRITION, DIETETICS AND FOOD SERVICE

1 Unit/1 hour lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Professional roles, skills, responsibilities and opportunities in the fields of nutrition, dietetics and food service management. Introduction to the history of the profession, related government agencies, scientific literature and resources, and professional code of ethics.

FDNT 75 PRINCIPLES OF FOOD

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Course Completion of CSKLS 371 or equivalent.
Transferability: CSU.
Description: Introduction to food science principles including whole food preparation techniques for healthy food production. Emphasis on food sanitation and safety, nutrition, sensory evaluation, food standards and quality, ingredients and their functions and interactions.

FDNT 112 SUSTAINABLE FOOD CHOICES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: The course will explore food systems, food production and processing, and the waste and pollution generated by different food production processes. Basic economics, food security, health and food quality issues will be addressed. The local and global environmental impacts of different food choices, and the potential for sustainability of different food systems will be discussed with an emphasis on personal and community choices.

FDNT 162 DIET THERAPY FOR HEALTHCARE

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of FDNT 10. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Appropriate diet therapy for stages of the life cycle and the stress conditions of disease. Intended for students in nursing and other healthcare fields who have completed an introductory nutrition course that did not cover diet therapy.

FRENCH (FREN)

FREN 1 ELEMENTARY FRENCH-PART 1

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 6A*
Description: Beginning elementary listening, speaking, reading and writing in French. Introduction to France and French-speaking cultures worldwide.

FREN 2 ELEMENTARY FRENCH-PART 2

4 Units/4 hours lecture, 1 hour by arrangement. Grade Only. Prerequisite: FREN 1 or two years of high school French. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC areas 3B,6A*
Description: Elementary listening, speaking, reading, and writing in French. Exploration of France and French-speaking cultures worldwide. Continuation and expansion of French 1.

FREN 3 INTERMEDIATE FRENCH-PART 1

4 Units/4 hours lecture, 1 hour by arrangement. Grade Only. Prerequisite: FREN 2 or three years of high school French. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC areas 3B,6A*
Description: Speaking, reading and writing in French with discussions and essays to develop linguistic skill and cultural knowledge. Review of first-year linguistic and cultural content.

FREN 4 INTERMEDIATE FRENCH-PART 2

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: FREN 3 or four years of high school French. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC areas 3B,6A*
Description: Speaking, reading and writing in French with discussions and essays to develop linguistic skill and cultural knowledge. Review and expansion of French 1-3.

FREN 49 INDEPENDENT STUDY IN FRENCH

1-3 Units/Up to 9 hours by arrangement. Grade Only. Prerequisite: Course Completion of FREN 2. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Requires signature of Instructor, Department Chairperson and Supervising Administrator.
Transferability: CSU;UC.
Description: Individual conferences or small group seminars by arrangement to provide for independent research and enriched academic experience in French, culminating in a final written and/or oral product. Course content varies but must not replicate the content of existing courses and is established according to the independent study application process. Students should have at least a 2.00 (C) grade average in all courses previously taken in French. NOTE: UC determines credit AFTER transfer; not counted for admission. See a counselor for details.

FREN 50A CONVERSATION FOR BEGINNERS-PART 1

3 Units/3 hours lecture, 1 hour by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: A beginning conversational French course designed to develop those listening and speaking skills

needed at school, on the job, and in the community. Students participate in a variety of pronunciation, listening and conversational activities. An introduction to the core grammatical structures and vocabulary required for communication.

FREN 50B CONVERSATION FOR BEGINNERS-PART 2

3 Units/3 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Course Completion of FREN 50A or FREN 1 or equivalent. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: A continuation of beginning Conversational French course designed to improve listening and speaking proficiencies including development of core grammatical structures and vocabulary required for communication.

FREN 50C INTERMEDIATE CONVERSATION

3 Units/3 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Course Completion of FREN 2 OR FREN 50B. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: An intermediate-level French conversation course designed to improve fluency through expansion of active vocabulary, attention to verb tense usage and oral practice.

FREN 58 HIGH INTERMEDIATE CONVERSATION

2 Units/2 hours lecture. Grade or P/NP. Prerequisite: Course Completion of FREN 50C OR FREN 2. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: This high-intermediate French conversation course is designed to expand and refine more advanced oral communication, further developing those listening and speaking skills needed for effective cross-cultural understanding in various social, academic, and professional situations.

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

GIS 40 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS)

3 Units/2 hours lecture, 3 hours laboratory. Grade Only.
Transferability: CSU;UC.
Description: The course introduces students to fundamental concepts of geographic information systems (GIS). Topics include elements of GIS, data structures and their management, introductory input and output functions and mapping possibilities. Hands-on exposure to GIS technology through the use of computers and current industry standard software is provided during the laboratory. A working knowledge of the Windows O.S. and Microsoft Office is recommended.

GIS 51 INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS (GIS)

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of GIS 40 and APTECH 191.
Transferability: CSU.
Description: This is an intermediate level course in the concepts of Geographic Information Systems (GIS). Topics

include elements of GIS, data structures and their management, intermediate input and output functions and mapping possibilities. Hands-on exposure to GIS technology through the use of computers and current industry standard software is provided during the laboratory.

GIS 52 ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (GIS)

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of GIS 51 and GIS 54.
Transferability: CSU.
Description: This is an advanced project-based course where the student will apply fundamental and intermediate concepts in Geographic Information Systems (GIS) to a specific project utilizing GIS technology and industry standard software. Students should come prepared with a project topic, scope, goals and objectives, and data sources. An oral presentation of the project will be made at the completion of the course.

GIS 53 CARTOGRAPHY IN GEOGRAPHIC INFORMATION SYSTEMS (GIS)

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of GIS 40. Recommended: Course Completion or Concurrent Enrollment in GIS 51.
Transferability: CSU.
Description: This course provides training in the knowledge of hard copy and web-based cartographic principles and the skills to implement these principles when creating a map within a Geographic Information Systems (GIS). It assists students in preparation for a career within the field of GIS. It is designed for those students who wish to produce maps which clearly communicate the results of GIS data and analysis.

GIS 54 DATA ACQUISITION IN GEOGRAPHIC INFORMATION SYSTEMS (GIS)

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in GIS 51.
Transferability: CSU.
Description: Develop skills in the acquisition, conversion, integration, analysis, management, storage and drafting of geospatial and attribute data for Geographical Information Systems (GIS).

GIS 56 GIS APPLICATIONS IN LAND USE PLANNING

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of GIS 51.
Transferability: CSU.
Description: This course uses the GIS (Geographic Information Systems) analysis process to explore the strategies of managing land use planning projects. Introduction to and analysis of issues related to urbanization.

GEOGRAPHY (GEOG)

GEOG 3 WORLD REGIONAL GEOGRAPHY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: GEOG 125
GE: *AA/AS areas D,H;CSU area D;IGETC area 4*
Description: Regional geography focuses on location and place; where people and places are in the world, their

similarities and differences, and reasons for their locations. Emphasis is placed on the interaction between the physical and human environments, culture, population, social and economic issues, historical influences and the impact of globalization.

GEOG 4 PHYSICAL GEOGRAPHY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
C-ID: GEOG 110
GE: *AA/AS area C;CSU area B1;IGETC area 5A*
Description: Physical Geography is an introduction to the study of the Earth and the processes that form and shape its physical features and landforms. Topics include Earth dimensions and motions, map reading and map use, earth-sun relationships, weather and climate, and tectonic and surface processes. Emphasis is placed on recognizing, describing, and interpreting the spatial distribution of Earth features and the processes that shape these features. May include a field trip.

GEOG 7 INTRODUCTION TO HUMAN GEOGRAPHY

3 Units/3 hours lecture. Grade or P/NP.
Transferability: CSU;UC.
C-ID: GEOG 120
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: Human geography is the study of the world, its people, communities, and cultures. Includes human population, ethnicity, culture, agriculture, development and settlement patterns, and social, political and economic systems. Emphasis is placed on spatial patterns and the interactions between humans and the physical environment.

GEOG 10 INTRODUCTION TO WEATHER AND CLIMATE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU area B1;IGETC area 5A*
Description: A descriptive introduction to the science of the atmosphere. Topics include Earth/Sun relationships, temperature, atmospheric pressure and wind, clouds and precipitation, storm fronts, hurricanes and tornadoes, weather forecasting, climate patterns and climate change, and atmospheric optics. California weather patterns and climate will be emphasized.

GEOLOGY (GEOL)

GEOL 1 THE EARTH

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: GEOL 100
GE: *AA/AS area C;CSU area B1;IGETC area 5A*

Description: An introduction to rocks, minerals, landforms and the dynamic processes that shape the Earth. Course includes the study of plate tectonics, volcanoes, earthquakes, and surface processes such as streams, shorelines and glaciers.

GEOL 1L GEOLOGY LAB

1 Unit/3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in GEOL 1.
Transferability: CSU;UC.
C-ID: GEOL 100L
GE: *CSU area B3;IGETC area 5C*
Description: An introduction to Earth materials through the identification of minerals and rocks. Interpretation of geologic processes and landforms through analyzing maps and other data.

GEOL 7 GEOLOGY FIELD TRIP

1-3 Units/Up to 1 hour lecture, 6 hours by arrangement. Grade Only. Prerequisite: Course Completion of GEOL 1, GEOL 11 or PHYSC 21.
Transferability: CSU;UC.
Description: Investigation of the geologic features of various locations within California, through field study and observation. Destinations may include Yosemite, Long Valley Caldera, Point Reyes, Bodega Bay, Mt. Lassen, and the Modoc Plateau. Identification of rocks, minerals, landforms, geologic history, and geologic processes in the field. Course includes a four to five day field trip and strenuous hiking. Good overall health and fitness are recommended for anyone considering enrolling in this class.

GEOL 11 GEOLOGY OF CALIFORNIA

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: GEOL 200
GE: *AA/AS area C;CSU area B1;IGETC area 5A*
Description: Introduction to the geologic principles and processes that formed and continue to influence California's geologic and tectonic environment. Overview of the origin and interpretation of rocks and fossils, volcanoes, earthquakes, plate tectonics, and the geologic history of California.

GEOL 20 NATURAL DISASTERS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU area B1;IGETC area 5A*
Description: A survey of Earth's processes that have direct, often sudden and violent impacts on societies and civilizations. Discussion will focus on causes, effects and mitigation efforts for hazards such as earthquakes, tsunamis, volcanic eruptions, erosion and landslides, bolide impacts and drought.

GERMAN (GERM)

GERM 1 ELEMENTARY GERMAN-PART 1

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 6A*
Description: Introduction to German grammar and development of all language skills in a cultural context with special emphasis on communication. Not recommended for students who have successfully completed 2 years of high school German or equivalent within the past 3 years.

GERM 2 ELEMENTARY GERMAN-PART 2

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: GERM 1 OR two years of high school German or equivalent. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC areas 3B,6A*
Description: Elementary German grammar and development of all language skills continued in a cultural context with special emphasis on communication.

GERM 3 INTERMEDIATE GERMAN-PART 1

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Three years of high school German OR GERM 2. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC areas 3B,6A*
Description: Speaking, reading and writing in German with discussions and essays to develop linguistic skill and cultural knowledge. Review of first-year linguistic and cultural content.

GERM 4 INTERMEDIATE GERMAN-PART 2

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Four years of high school German or GERM 3. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC areas 3B,6A*
Description: Speaking, reading and writing in German with discussions and essays to develop linguistic skill and cultural knowledge. Review and expansion of German 1-3

GERM 49 INDEPENDENT STUDY IN GERMAN

1-3 Units/Up to 9 hours by arrangement. Grade Only. Prerequisite: Course Completion of GERM 2. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Individual conferences or small group seminars by arrangement to provide for independent research and enriched academic experience in German, culminating in a final written and/or oral product. Course content varies but must not replicate the content of existing courses and is established according to the independent study application process. Students should have at least a 2.00 (C) grade average in all courses previously taken in German. NOTE: UC determines credit AFTER transfer; not counted for admission. See a counselor for details.

GERM 50B CONVERSATION FOR BEGINNERS-PART 2

3 Units/3 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Course Completion of GERM 1 or GERM 50A. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: A continuation of the beginning conversational course, German 50A, designed to improve those listening and speaking proficiences needed at school, on the job, in the community and throughout the German-speaking world. Students participate in a variety of pronunciation, listening and conversational activities, furthering the development of the core grammatical structures and vocabulary required for communication.

GRAPHIC DESIGN (GD)

GD 15 HISTORY OF GRAPHIC DESIGN

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C1;IGETC area 3A*
Description: Exploration of the development of graphic design. A broad survey of notable stages and accomplishments in the evolution of graphic design from prehistory to the present. Examines how through the centuries particular cultures, movements, works and individuals affect graphic design today.

GD 20 INTRODUCTION TO TYPOGRAPHY AND LETTERFORMS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Course Completion or Concurrent Enrollment in GD 51Course Completion or Concurrent Enrollment in GD 51Course Completion or Concurrent Enrollment in GD 51Course Completion or Concurrent Enrollment in GD 51.
Transferability: CSU;UC.
Description: An introduction to typography for visual communications in graphic design. The class emphasizes the use of typography in the design process, including aspects of analytical and creative design through typical media, including: a brochure, poster, or magazine ad. Students explore the evolution and classification of letterforms, the investigation of structure, format, legibility, and expression. Exercises include both hand and digital skills, including hand lettering and experimental type, with an emphasis on the application of typography.

GD 51 INTRODUCTION TO GRAPHIC DESIGN

3 Units/3 hours lecture. Grade or P/NP.
Transferability: CSU.
Description: An introduction to visual communications in the field of graphic design. The course includes: concept development, the creative design process, production, and presentation techniques through the development of design projects on various media, including beginning computer software skills. Emphasis will be placed on the application of basic design principles to graphic design problems in visual communications. Design solutions will explore the potential of strategy, concept, and design utilizing composition, layout, illustration, photography, typography, and symbology.

GD 52 RAPID VIZ: DRAWING TECHNIQUES FOR THE DESIGNER

1.5 Units/1.5 hours lecture, 0.5 hour laboratory. Grade Only.
Transferability: CSU.
Description: This course teaches graphic design students how to sketch graphic design concepts quickly using effective and dynamic visual shorthand (Rapid Viz) for communication with clients and other graphic designers. The student will learn how to handle the basics of form, composition, perspective, light, shadows and shading using rapid indication of elements in a design with hands-on tools. The emphasis is on creating basic thumbnails and rough sketches using professional development protocols and industry recognized materials.

GD 53 DESIGN TECHNIQUES IN ILLUSTRATOR

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CS 71.11.
Transferability: CSU.
Description: An intensive course on Adobe Illustrator and its uses in the field of graphic design. Students learn the essentials of creating vector images through projects including logo design and digital illustrations, while utilizing essential design principles.

GD 54 BEGINNING PAGE LAYOUT AND ADVERTISING DESIGN

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in CS 72.11A and GD 51.
Transferability: CSU.
Description: This course focuses on effective design techniques for page layout and advertising. Students will use industry-standard page layout and photo manipulation software to develop creative solutions to a variety of design situations including: business systems, advertisements, brochures, and multi-page newsletters.

GD 55 HANDMADE DESIGN FOR DIGITAL DESIGNERS

3 Units/3 hours lecture. Grade Only.
Transferability: CSU.
Description: The application of basic hand-done design and mock-up techniques for the graphic/digital designer. Students will learn how to use a variety of graphic tools, materials, and techniques to create professional quality design projects. Students have an opportunity to learn the basic methods of graphic collaging, texture creation, illustration techniques, and mock-up (comprehensive) techniques. Projects will be taken full cycle from the integration of hand-done illustration to output on digital printers.

GD 57 GETTING IT PRINTED: DIGITAL PREPRESS AND PRINT PRODUCTION

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of GD 54.
Transferability: CSU.
Description: A course designed to prepare the graphic design student for dealing with the prepress and print production process. The student will learn the skills needed to create accurate files for printing using a variety of processes, learn skills necessary to communicate and work with prepress vendors and printing firms, and choose wherever appropriate printing solutions that support sustainability and environmental concerns.

GD 58 ADVANCED PAGE LAYOUT AND ADVERTISING DESIGN

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of CS 72.11A and GD 54; OR Course Completion of CS 72.11B.
Transferability: CSU.
Description: This in-depth course will explore creative layout solutions for print and digital media using Adobe

InDesign. Students will develop single- and multi-page designs for print and digital applications. Topics include: brand and advertisement design for global and bilingual markets, magazine and book layout, design strategies for multiple page sizes and orientations, basic interactive media design, grid systems, professional typography, and using effective imagery.

GD 60 CREATING THE PROFESSIONAL PORTFOLIO

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Students learn to prepare professional print, digital and web portfolios for graphic design, photography and art. This course teaches students how to navigate the job market, essential interview skills, presenting their work, networking skills, resumes, self-promotion, and honing essential soft-skills. Student must supply 15 pre-existing high quality pieces to be approved by the instructor.

GD 62 COLOR THEORY FOR DESIGNERS

1.5 Units/1.5 hours lecture. Grade or P/NP.
Transferability: CSU.
Description: A study of the principles, theories, and applications of additive and subtractive color in two dimensions. Topics will include major historical and contemporary color systems, production of projects in applied color, and the elements of design as they apply to color. This course will also work with color in the context of industry standard computer software, such as: Adobe Illustrator, InDesign and Photoshop.

GD 63 ONLINE RESOURCES FOR GRAPHIC DESIGNERS

1.5 Units/1.5 hours lecture. Grade or P/NP.
Transferability: CSU.
Description: A course to survey the online resources and tools available for graphic designers. Topics will include: exploring design information, galleries and trends on the world wide web, using free online tools for projects and business, locating and downloading fonts, graphics and software, and finding helpful business, career and education resources. Students must have a reliable e-mail account, and basic proficiency in using computers, the Internet, and word processing software.. (Formerly taught as APGR 69)

GD 65 BUSINESS SKILLS FOR CREATIVES

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Whether you plan to run a graphic design company or work as a freelancer, understanding the nuts and bolts of running a creative business is essential. This course will cover business-related topics including project management, estimating and billing, record keeping and taxes. Students will learn best practices for working with clients, vendors, and colleagues.

GD 72 PRINCIPLES OF SCREEN DESIGN

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of CS 70.11A.
Transferability: CSU.
Description: The course teaches students how to design effective screen layouts for multiple display sizes by applying established graphic design principles and techniques. Students will explore website planning,

development and design from a graphic design perspective. Topics include: design principles, color theory and application, screen and motion typography, flexible grid layouts and responsive design, techniques for incorporating imagery, navigation and interface design, and accessibility considerations.

GD 90 DESIGNING THE USER EXPERIENCE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Course Completion of GD 51Course Completion of GD 51.
Transferability: CSU.
Description: This course covers user experience design, following the user-centered design process. It is oriented toward practical methods for approaching a design problem holistically, beyond usability and usefulness. It examines different target platforms such as smartphone, tablets, and desktop systems. A user-centric approach is employed to determine which platform is best for the desired application. In this class, students will demonstrate an understanding of user experience including how to design for it and how to evaluate it. This course teaches a set of techniques to gather information about what the user needs, how to design and model interfaces based on those needs and then how to evaluate the design to ascertain that the user's goals are met.

GD 145 PACKAGE DESIGN

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Course Completion of GD 51. Recommended: Course Completion of GD 53Course Completion of GD 53.
Description: This course emphasizes the application of graphic design elements to various forms of package design. Students will learn how to use a variety of graphic tools, materials, and techniques to create three-dimensional package design that is innovative and functional. Each design solution is developed from the angle of project requirements, marketing and branding, audience appeal, and product needs. Areas of study will include the package design process, prototyping, material testing, crafting 3D models, brand awareness, container functionality and executing the final designs.

HEALTH CARE (HLC)

HLC 52 INTRODUCTION TO PUBLIC HEALTH

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent; and Course Completion or Concurrent Enrollment in HLE 5.
Transferability: CSU.
Description: The course provides an introduction to the discipline of Public Health. Students will gain an understanding of the basic concepts of public health, the history and accomplishments of public health officials and agencies. An overview of the functions of various public health professions, institutions, and an in-depth examination of the core public health disciplines is covered. Topics of the discipline include the epidemiology of infectious and chronic diseases, prevention and control of diseases in the community, analysis of the social determinants of health and strategies for eliminating disease, illness and health disparities among various populations; community organizing and health promotion programming; environmental health and safety; global health; and healthcare policies.

HLC 120 HEALTH CAREERS INSTITUTE

4 Units/2.67 hours lecture, 4 hours laboratory. Grade Only. Limits on enrollment: Students must be current on following immunizations: MMR, Varicella-Zoster, current TB clearance. Proper paperwork must be completed and submitted to instructor prior to deadline as published in schedule.
Description: This course is designed to introduce high school students to opportunities in the health care field through lecture, laboratory, and fieldwork experiences.

HLC 121 HEALTH CAREERS ACADEMY I

1.5 Units/1 hour lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in HLC 121L. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Due to hospital requirements students must be 16 years of age or older and meet the following immunizations and vaccination requirements; MMR, Varicella-Zoster, Hepatitis B, Tdap, seasonal influenza, and current TB clearance.
Description: This course is designed to introduce students to healthcare and healthcare careers through lecture. Career exploration will focus on the following health career profiles: medical-surgical, laboratory, pharmacy services, diagnostic imaging, and health information. Anatomy and physiology will be introduced with a focus on the cardiovascular and nervous systems.

HLC 121L HEALTH CAREERS ACADEMY LAB I

0.75 Unit/2.5 hours by arrangement. Grade Only. Prerequisite: Course Completion or Current Enrollment in HLC 121. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Due to hospital requirements students must be 16 years of age or older and meet the following immunizations and vaccination requirements; MMR, Varicella-Zoster, Hepatitis B, Tdap, seasonal influenza, and current TB clearance.
Description: This course is designed to introduce students to health care and healthcare careers through laboratory and fieldwork experiences. Career exploration will focus on the following health career profiles: medical-surgical, laboratory, pharmacy services, diagnostic imaging, and health information. Performance oriented self-regulation skills will be taught using the Heart Math curriculum.

HLC 122 HEALTH CAREERS ACADEMY II

1.5 Units/1 hour lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of HLC 121 and HLC 121L AND Concurrent Enrollment in HLC 122L. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Due to hospital requirements students must be 16 years of age or older and meet the following immunizations and vaccination requirements; MMR, Varicella-Zoster, Hepatitis B, Tdap, seasonal influenza, and current TB clearance.
Description: This course is designed to build upon introductory concepts that explore opportunities in the health care field through lecture. Career exploration will focus on the following health career profiles: medicine, nursing, dental, nutrition, public health, therapy and rehabilitation. Anatomy and physiology will be introduced with a focus on the endocrine, muscular, and skeletal systems. Students will complete a professional development module preparing them for volunteer and job opportunities.

HLC 122L HEALTH CAREERS ACADEMY LAB II

0.75 Unit/2.5 hours by arrangement. Grade Only. Prerequisite: Course Completion or Current Enrollment in HLC 122. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Due to hospital requirements students must be 16 years of age or older and meet the following immunizations and vaccination requirements; MMR, Varicella-Zoster, Hepatitis B, Tdap, seasonal influenza, and current TB clearance.
Description: This course is designed to build upon introductory concepts that explore opportunities in the healthcare field through laboratory and fieldwork experiences. Career exploration will focus on the following

health career profiles: medicine, nursing, dental, nutrition, public health, therapy and rehabilitation. Healthy Eating Active Living content will be learned and implemented in a health outreach campaign. Students will learn healthcare relevant professional communication skills.

HLC 140 HEALTH CARE IMPLICATIONS OF ANATOMY AND PHYSIOLOGY

1 Unit/1 hour lecture. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in ANAT 140. Recommended: Eligibility for ENGL 1A or equivalent.
Description: Implications of anatomy and physiology for patient care, including relationship of body structures and functions to health and disease. Designed as preparation for selected health sciences programs.

HLC 160 MEDICAL TERMINOLOGY

(Formerly HLC 60) 3 Units/3 hours lecture. Grade or P/NP.
Description: Basic foundation for those who plan to work in health related fields. Provides medical terminology for anatomy, physiology, diseases, medical procedures, treatment and drugs for all the body systems.

HLC 756 TRANSCULTURAL HEALTH CARE

0 Unit/1 hour lecture, 3 hours by arrangement. Non-Credit Course. Limits on enrollment: Enrollment is limited to those pursuing a career in health care. This is a physically demanding and time intensive course. Students must be in good physical condition and possess a valid passport and required vaccinations. Proper paperwork must be completed and submitted to instructor prior to deadline as published in schedule.
Description: An immersion experience in transcultural health care while living in another country. Theory will focus on health related beliefs and practices, cultural sensitivity and diversity. Health and illness across the life continuum from birth to death will be explored. Clinical experiences will focus on care of women and children, growth and development, immunizations, client and community assessments, screening, teaching and prevention. Clinical sites may include: hospitals, outpatient clinics, children's orphanages, and migrant work camps.
Exempt From Repeat Provisions

HEALTH CARE INTERPRETER (HCI)

HCI 180 INTRODUCTION TO HEALTHCARE INTERPRETING

1.5 Units/1.5 hours lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in HLC 160 and Course Completion of ENGL 1A and Concurrent Enrollment in HCI 180L.
Description: This course will give bilingual students an overview of the field of healthcare interpreting, explore roles, standards and scopes of practice of the Healthcare Interpreters (HCI). The class will review program requirements and HCI educational and employment opportunities. Students will shadow and interview healthcare interpreters. Students must earn a "C" or better in all HCI-required courses to continue in the program.

HCI 180L INTRODUCTION TO HEALTHCARE INTERPRETING LAB

0.5 Unit/1.5 hours laboratory. Grade Only. Prerequisite: Concurrent Enrollment in HCI 180.
Description: In this lab course, students will complete exercises and role-play scenarios to explore roles, standards and essential skills necessary to become a successful Healthcare Interpreter (HCI). In addition, students will

practice and be required to demonstrate non-medical, dual-language skills and will begin use of medical language in healthcare interpreting. Students must earn a C or better in all HCI-required courses to continue in the program.

HCI 181 FUNDAMENTALS OF HEALTHCARE INTERPRETING

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of HCI 180 and HCI 180L and ANAT 58; AND Concurrent Enrollment in HCI 181L.
Description: Bilingual individuals will develop knowledge and skills necessary for effective language interpretation in healthcare settings. Emphasis will be on roles and responsibilities of healthcare interpreters, basic knowledge of common medical conditions, treatments and procedures, insight in language and cultural nuances for specific communities necessary in the art of interpretation.

HCI 181L FUNDAMENTALS OF HEALTHCARE INTERPRETING - LAB

1 Unit/3 hours laboratory. Grade Only. Prerequisite: Course Completion of HCI 180 and Course Completion of HCI 180L and Concurrent Enrollment in HCI 181.
Description: During this lab course, students will practice exercises and implement interpreting models, techniques and strategies to develop skills necessary for language interpretation in healthcare settings. Emphasis will be on demonstrating the roles and responsibilities of healthcare interpreters, the use of basic medical language relating to common medical conditions, treatments and procedures, and practice in dual-language use and recognition of cultural nuances for specific communities necessary in the art of interpretation.

HCI 182 DEVELOPING HEALTHCARE INTERPRETER COMPETENCIES

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of HCI 181: AND HCI 181L; AND ANAT 58 (OR HLC 140 and ANAT 140); AND COMM 1 (OR COMM 60); AND Concurrent Enrollment in HCI 182L.
Description: Advanced training for bilingual individuals as integral members of healthcare teams in bridging the language and cultural gap between clients and providers. Further enhancement of interpreting skills, focusing on specialized healthcare service areas such as genetics, mental health, men's health, women's health, children's health, and death and dying. Advanced skills in ethical decision making, memory development, patient advocacy, and listening. Continued development of cultural competency.

HCI 182L DEVELOPING HEALTHCARE INTERPRETER COMPETENCIES - LAB

1 Unit/3 hours laboratory. Grade Only. Prerequisite: Course Completion of HCI 181 and HCI 181L and ANAT 58 AND Concurrent Enrollment in HCI 182. Limits on enrollment: Currency on all immunizations including annual flu shots, annual tuberculosis clearance, a negative background check, and possess a current American Heart Association Certified Healthcare Provider CPR card.
Description: During this lab course, students will practice advanced interpreting skills with an English/Language of Service (LOS) language coach, focusing on medical language and HCI interpreting skills such as managing the flow in interpreting sessions, developing the technical aspects of interpreting, identifying health and communication issues in ethnic communities, and interpreting in specialized healthcare service areas. Lab exercises will include role-play, memory development, listening, and problem solving with case studies, as well as continued development of cultural competency.

HCI 183 HEALTHCARE INTERPRETING: EXTERNSHIP SEMINAR

1 Unit/1 hour lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in HCI 182 and HCI 182L and Concurrent Enrollment in HCI 183L.
Description: This seminar will prepare students for their interpreting experience in healthcare settings, where they will be facilitating linguistic and cultural communication between client and healthcare providers and will be observed by and receive feedback from interpreter preceptors. The course will include orientation and discussions about interpreting experiences, interpreting challenges and opportunities, cultural competency, and interpreting with special populations. Students will also prepare for a role-play interpreting final exam, which must be successfully passed to receive the Healthcare Interpreter Certificate of Achievement.

HCI 183L HEALTHCARE INTERPRETING: EXTERNSHIP

2 Units/6 hours by arrangement. Grade Only. Prerequisite: Course Completion or Current Enrollment in HCI 182 and HCI 182L and Concurrent Enrollment in HCI 183. Limits on enrollment: ALTA Language Services English and Language of Service Proficiency Exams must be successfully passed before entering HCI 182. Immunization, TB clearances, and background check required for participation in externship.
Description: Practical interpreting experience in healthcare settings, facilitating linguistic and cultural communication between client and healthcare providers. Students observe working interpreters, apply knowledge and technical interpreting skills learned in the classroom, and are observed and receive feedback from interpreter preceptors. Students interpret for special populations including trauma survivors, the elderly, mental health clients, and others.

HEALTH EDUCATION (HLE)

HLE 5 PERSONAL HEALTH AND WELLNESS

(Formerly HLE 50) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *CSU area E*
Description: Examination of current health issues and application of health behavior change theories to every day life situations and decisions. Topics such as fitness, diet, stress, substance abuse, sexuality, personal safety, as well as environmental health are explored and discussed. Focus on student evaluation of practices and attitudes that affect their health status throughout life. (Formerly: HLE 50)

HLE 6 STANDARD FIRST AID, CPR, AND AED

1 Unit/1 hour lecture, 1 hour laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
Description: This course teaches CPR, Automatic External Defibrillation (AED) and First Aid emergency response skills which enable participants to give immediate care to a person who has been injured or is experiencing a sudden illness. Upon completion of the course, participants will perform and demonstrate knowledge of adult, child and infant CPR, foreign body obstructed airway, AED, comprehensive victim assessment, treatment for severe bleeding, wound care, shock, burns, bone, joint and muscle injuries, heat and cold exposure, and sudden illness. Satisfies first-time and renewal certifications.

HISTORY (HIST)

HIST 1.1 WORLD HISTORY TO 1500

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: The growth of civilizations and the inter-relationships of the peoples of Europe, Asia, Africa and Americas to 1500.

HIST 1.2 WORLD HISTORY SINCE 1500 C.E.

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: The history and development of world civilizations and the interrelationships of peoples from Europe, Asia, Africa and the Americas since 1500 C.E.

HIST 4.1 HISTORY OF WESTERN CIVILIZATION TO 1648 C.E.

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: HIST 170
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: A survey of Western Civilizations to 1648 C.E. The course begins with the Ancient Near East, and includes the study of ancient Greece, ancient Rome, the Middle Ages, the Renaissance and the Reformation.

HIST 4.2 HISTORY OF WESTERN CIVILIZATION FROM 1648 C.E.

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: HIST 180
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: A survey of European history from 1648 C.E. to the present. The course includes the study of the Scientific Revolution, the Enlightenment, the French Revolution and Napoleon, the Industrial Revolution, World War I, Communism and Stalin, Hitler, World War II, the Cold War, and globalism.

HIST 5 HISTORY OF THE MODERN MIDDLE EAST

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: An introduction to the history of the Middle East focusing on the regional and international influences that have shaped the area over the last two centuries. The course begins with an overview of the pre-modern period before turning to political, social, cultural and economic issues of the modern era. Topics include the Arab-Israeli conflict, the power of oil, the preoccupation with authoritarian rule, challenges to social and economic development, the rise of Islamic political movements, and the role of outside powers in shaping the region.

HIST 8.1 HISTORY OF LATIN AMERICA FROM PRE-COLUMBIAN TO 1830

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.
Transferability: CSU;UC.
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: An introductory survey of Latin American history from pre-Columbian times to the 1830s. This course will examine the history of Indigenous societies, the development of the European colonial system, and subsequent independence movements.

HIST 8.2 HISTORY OF LATIN AMERICA FROM 1830 TO PRESENT

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.
Transferability: CSU;UC.
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: An introductory survey of Latin American history from the early 19th century to the present. This course will analyze the convergence of different ethnic groups and their contributions to the new socio-political systems that developed after independence, the intervention of the United States in these countries, neo-colonialism, and specific revolutionary movements in Mexico, Cuba, Chile, Nicaragua and El Salvador.

HIST 17.1 HISTORY OF THE UNITED STATES TO 1877

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: HIST 130
GE: *AA/AS areas D,F;CSU areas D,F1;IGETC area 4*
Description: History of the United States through Reconstruction.

HIST 17.2 UNITED STATES HISTORY FROM 1877

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: HIST 140
GE: *AA/AS areas D,F;CSU areas D,F1;IGETC area 4*
Description: A survey of United States history from 1877 to the present. This course will focus on social, political, economic, and cultural events that have helped shape the history of the United States.

HIST 18.1 HISTORY OF WOMEN IN THE UNITED STATES TO 1877

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.
Transferability: CSU;UC.
GE: *AA/AS areas D,F;CSU areas D,F1;IGETC area 4*
Description: An in-depth historical study of the political, economic, cultural, and social developments of women in the United States to 1877.

HIST 18.2 HISTORY OF WOMEN IN THE UNITED STATES SINCE 1877

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.
Transferability: CSU;UC.
GE: *AA/AS areas D,F;CSU areas D,F1;IGETC area 4*
Description: An in-depth historical study of the political, economic, cultural, and social developments of women in the United States since 1877.

HIST 20 HISTORY OF THE US SINCE 1945

(Formerly HIST 17.3) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas D,G;CSU area D;IGETC area 4*
Description: This course will explore the political, economic, and social history of America from 1945 to the present including the United States' role in the Cold War and post-Cold War eras. Domestic trends examined will include the expanding consumer society, rise of social movements, and the response of neo-conservatism. Additionally, the course will focus on America's relationship to the larger world including the nation's relationship with the Soviet Union, participation in Middle East conflict and globalization.

HIST 21 RACE, ETHNICITY AND GENDER IN AMERICAN CULTURE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas D,F,G;CSU areas D,F1;IGETC area 4*
Description: An examination of the interrelated roles of race, ethnicity and gender in shaping political and cultural institutions in the United States. From pre-Columbian times to the present, the course will explore and analyze the experiences, contributions, and interconnectedness of African, Asian, European, Latino and Native American peoples.

HIST 22 HISTORY OF CALIFORNIA

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas D,G;CSU area D;IGETC area 4*
Description: A survey of California history from the precolonial period to the present. The course will examine the distinct contributions and interactions of diverse peoples and environments. Special attention is given to how political power is shaped by race, gender, class, and ethnicity in different periods of the state's history.

HIST 26 HISTORY OF CHICANOS AND LATINOS FROM 1848 TO PRESENT

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas D,G;CSU area D;IGETC area 4*
Description: An introductory survey of Chicano and Latino history in the U.S. this course will examine the political, economic, social, and cultural aspects influencing these groups' advances, contributions, and adaptations to U.S. society. After a brief overview of early Latin American history the course will focus on the period from 1848 to the present.

HIST 30 AFRICAN AMERICAN HISTORY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas D,G;CSU area D;IGETC area 4*
Description: A critical examination of African American history and historiography covering the colonial period through the opening of the 21st century. We will trace the African American experience from its West African roots, through the trauma of the Atlantic slave trade, and the struggle of a people to create culture and community under the brutal conditions of American slavery. Following an overview of the Civil War and Reconstruction, students will analyze the rise of "Jim Crow," black migration, and urbanization over the course to two world wars and the continuing influence of African Americans on the politics and culture of the United States.

HIST 33 HISTORY OF MEXICO

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: Study of Mexican social, political and economic history from the Pre-Columbian era to the present.

HORTICULTURE (HORT)

HORT 8 LANDSCAPE PLANTS: SUMMER/FALL

(Formerly HORT 54) 3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of CS 5 or proficiency in basic productivity software including word processing, spreadsheet, and presentation software.
Transferability: CSU;UC.
Description: Identification, growth habits, culture and ornamental use of landscape and indoor plants adapted to California climates. Includes an introduction to plant taxonomic system and botanical nomenclature. Emphasis on plants listed in the current California Association of Nurserymen and Garden Centers (CANGC) and National Association of Landscape Professionals (NALP) Certification Tests Plant Lists. Presentation of those plants best observed and studied in the summer and fall of the year through field lectures on SRJC grounds and at other locations.

HORT 12 LANDSCAPE PLANTS: WINTER/SPRING

(Formerly HORT 55) 3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of CS 5 or proficiency in basic productivity software including word processing, spreadsheet, and presentation software.
Transferability: CSU;UC.
C-ID: AG - EH 112L
Description: Identification, growth habits, culture and ornamental use of landscape and indoor plants adapted to California climates. Includes an introduction to plant taxonomic system and botanical nomenclature. Emphasis on plants listed in the current California Association of Nurserymen (CAN) and Associated Landscape Contractors of America (ALCA) Certification Tests Plant Lists. Presentation of those plants best observed and studied in the winter and spring of the year through field lectures on SRJC grounds and at other locations.

HORT 50.1 INTRODUCTION TO HORTICULTURAL SCIENCE

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Introduction to horticulture with an emphasis on the basics of plant growth and development, plant descriptions and classification, basic plant propagation, soils, fertilizers, and water management. This is the first half of a two-part series exploring (1) horticulture as an applied science and (2) horticultural careers.

HORT 50.2 HORTICULTURE INDUSTRY AND CAREERS

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Exploration into career opportunities, professional organizations, and required skills within the horticulture industry, including nursery, landscape, and floriculture trades.

HORT 51 INTRODUCTION TO HORTICULTURE

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100; AND CS 5 or proficiency in basic productivity software including word processing, spreadsheet, and presentation software.
Transferability: CSU.
Description: An introduction to environmental horticulture with an emphasis on nursery operations, landscaping, turf management, and floral industries. Topics include: basic botany; plant identification and classification; cultural practices; propagation; structures and layout; pest management; planting; container gardening and houseplants; landscape design; floral design; turfgrass installation and care, and survey of career opportunities in the industry.

HORT 56 HORTICULTURAL ENTERPRISE PROJECT

2-4 Units/Up to 1 hour lecture, 9 hours by arrangement. P/NP Only. Prerequisite: Completion or concurrent enrollment in HORT 70 OR HORT 71 OR HORT 72 OR HORT 91 OR HORT 93. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Instructor consent needed for approval of use of District resources.
Transferability: CSU.
Description: In consultation with instructor, student will select a specific agricultural/horticultural crop, commodity, or product and develop an enterprise project, using resources at District or other locations (with instructor's consent). Projects involve field experience in production and management techniques, marketing methods, and eventual sale of the chosen agricultural/horticultural crop, commodity, or product.

HORT 70 PLANT PROPAGATION

(Formerly AG 92.1) 3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates; and Eligibility for CS 5 or proficiency in basic productivity software including word processing, spreadsheet, and presentation software.
Transferability: CSU.
C-ID: AG - EH 116L
Description: Plant propagation and production practices with emphasis on nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, plant pest and disease control; structures and site layout; preparation and use of propagating and planting mediums; use and maintenance of common tools and equipment; regulations pertaining to plant production.

HORT 71 NURSERY PRODUCTION

(Formerly AG 92.2) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates; and Eligibility for CS 5 or proficiency in basic productivity software including word processing, spreadsheet, and presentation software.
Transferability: CSU.
Description: Course covers study of production techniques, growing media, watering, fertilization, marketing and sales, as well as nursery site selection and development.

HORT 72 GREENHOUSE PRODUCTION

(Formerly AG 92.3) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates; and Eligibility for CS 5 or proficiency in basic productivity software including word processing, spreadsheet, and presentation software.
Transferability: CSU.
Description: Analysis, description, and operation of greenhouses and other structures and facilities as they relate to a variety of ornamental and agricultural crops. Included are: relationships of light, temperature, moisture, aeration, humidity, and fertility; identification and investigation of major greenhouse grown crops including foliage plants, flowering potted plants, bedding plants, cut flowers, color and specialty crops; creating and implementing several cropping plans for greenhouse plants and products.

HORT 80 LANDSCAPE MAINTENANCE

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of CS 5 (or CIS 5 or BDP 5 or BDP 51).
Transferability: CSU.
Description: This course prepares students to evaluate and improve the function and aesthetic value of public and private landscapes by applying appropriate sustainable industry maintenance techniques. Topics include planting, pruning, watering, soil fertility, pest management, weed control, proper use and care of hand tools, and basic landscape maintenance business practices.

HORT 91 LANDSCAPE CONSTRUCTION/ESTIMATION

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates; and Eligibility for CS 5 or proficiency in basic productivity software including word processing, spreadsheet, and presentation software.
Transferability: CSU.
Description: Introduction to the field of landscape contracting, including cost estimating and bidding procedures. Course includes hands-on experience with tools, materials, and methods used in the construction of wood and simple concrete and masonry landscape features. Projects are designed to develop the skills necessary for successful performance on the C-27 landscape contractor's licensing exam and national industry certification.

HORT 93 LANDSCAPE DRAFTING AND DESIGN

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates; and Eligibility for CS 5 or proficiency in basic productivity software including word processing, spreadsheet, and presentation software.
Transferability: CSU.
Description: Introduction to landscape drafting and design techniques for producing scaled plan-view and elevation drawings, construction details, and landscape plans. Includes steps and sequence in the design process; design themes, principles, and elements; general plant selection and usage; and client-designer relations. Drafting equipment required.

HORT 94 LANDSCAPE DESIGN APPLICATIONS

(Formerly HORT 94C) 3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of HORT 8 or HORT 12; AND Completion of HORT 93.
Transferability: CSU.
Description: Application of design principles and the design process to various types and styles of residential and small commercial projects. Drafting equipment and field trip(s) required.

HORT 127 EDIBLE LANDSCAPES: DESIGN AND MAINTENANCE

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Identification of design and cultural requirements common to edible landscapes. Lectures will address plant selection and combinations as well as maintenance practices.

HORT 133 CURRENT TOPICS IN HORTICULTURE

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course encompasses an introduction of selected horticultural issues. The intent is to broaden student perspective beyond textbooks for understanding the most current horticultural industry practices that are related to new technology, products or management procedures.

HORT 144 LANDSCAPE IRRIGATION

(Formerly HORT 92.1) 3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and CS 5 or proficiency in basic productivity software including word processing, spreadsheet, and presentation software.
Description: Prepares students to design, install, maintain, and audit a water efficient landscape irrigation system. Topics include basic water supply, basic hydraulics, component identification and terminology, system layout, pipe sizing, and types of valves, heads, and controllers, and practices related to appropriate horticulture for California. Students who complete the course with a grade of "C" or better will be recognized as having completed an EPA (Environmental Protection Agency) approved WaterSense Training Program.

HORT 151 PRUNING ORNAMENTALS

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: A guide to pruning trees, shrubs, vines and perennials. Discussion of basic plant shapes and how plants grow as the foundation for the benefits of pruning. Basic pruning methods and procedures. Correct tool use and maintenance.

HORT 184 INTRODUCTION TO ARBORICULTURE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates; and Eligibility for CS 5 or proficiency in basic productivity software including word processing, spreadsheet, and presentation software; AND Course Completion of HORT 51.
Description: Principles of urban forestry, arboriculture careers, and tree care; including tree biology, tree identification, plant health care, soils, nutrition, planting, worker safety, climbing, pruning, tree risk assessment, tree care tools and equipment. This course provides the knowledge necessary to be successful in the tree care profession. This course also prepares students for the International Society of Arboriculture's (ISA) Arborist Certification examination. Field lectures on the SRJC campus and other locations may be required.

HORT 195 CAD: LANDSCAPE SITE PLANS

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of HORT 93. Recommended: Course Completion of APTECH 46 and eligibility for CS 5 or proficiency in basic productivity software including word processing, spreadsheet, and presentation software.
Description: Introduction to computer assisted landscape drafting utilizing CAD (computer-aided drafting) software to produce professional quality landscape site plans for residential and small commercial sites. Particular attention given to drafting base plans, building footprints, and other simple hardscape features, planting bed lines, plant symbolization and irrigation plan layout.

HOSPITALITY (HOSP)

HOSP 50 INTRODUCTION TO TOURISM IN SONOMA COUNTY

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course offers an overview of the tourism industry in Sonoma County and its critical role in the economy. Students acquire information, resources, and experiences to enhance visitors' experiences and increase tourism activity for the county, a private business, or an employer. Students learn the elements of tourism value, Sonoma County history, customer service and Sonoma County resources. The course provides the opportunity to sit for the Certified Tourism Ambassador exam from Sonoma County Tourism Bureau.

HOSP 53 CUSTOMER SERVICE

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Introduction to principles and techniques for delivering outstanding customer service. Covers the attributes of customer service-oriented businesses and development of appropriate customer service skills.

HOSP 54 CUSTOMER RELATIONS FOR THE HOSPITALITY INDUSTRY

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion or Concurrent Enrollment in HOSP 53.
Transferability: CSU.
Description: Concepts and skills for providing outstanding customer relations including problem solving, effective communications, dealing with challenging customers, and cultural components of customer interactions service excellence. Discusses customer relations goals, the importance of customer relations to business success, and current trends and practices.

HOSP 63 INTRODUCTION TO THE HOTEL INDUSTRY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
C-ID: HOSP 140
Description: This course will provide you with an introduction to the hotel industry. Topics include industry history, types of accommodations, an overview of hotel operations, department functions, as well as legal issues, human resources, and safety. Students will learn about the impact of the internet and explore the local hotel industry. Industry software and real world skills will be included.

HOSP 68 HOSPITALITY LAW

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
C-ID: HOSP 150
Description: This course is designed to cover basic principles of contracts, liability, and labor as they apply specifically to the hospitality industry. Lecture and discussions are enhanced by industry guest speakers and industry visits.

HOSP 80 INTRODUCTION TO HOSPITALITY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
C-ID: HOSP 100
Description: Students learn about the scope of the Hospitality and Tourism Industry. This course is designed to prepare students for careers in hospitality management. Overview of structure and financial performances of hospitality industry; food and lodging, resorts, tourism enterprises, attractions and related operations. Focus on orientation to customer service, cultural/economic trends and career opportunities.

HUMAN RESOURCES (HR)

HR 60 HUMAN RESOURCE MANAGEMENT

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Overview of the Human Resources profession and the role it plays in contributing to the success of the organization. Emphasis is on Human Resource responsibilities, procedures and administration, such as employment law, staffing, compensation, ethics, employee relations, training, performance management, benefits, metrics, and labor relations. Best practices, current trends, and the role of Human Resources in strategic planning are consistently highlighted.

HR 61 HUMAN RESOURCE EMPLOYMENT LAW

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Overview of application of California and Federal employment law. Interpretation of employment law in today's work environment through research and analysis of court decisions. Topics include employment at will, legal investigations, discrimination, ergonomics, substance abuse, workplace violence, terminations, and laws as they apply to employer size. Emphasis is on research, analysis, and prevention of litigation.

HR 62 HUMAN RESOURCE RECORDS

(Formerly HR 65.3) 1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Fundamentals of labor and employment records administration in compliance with California and Federal laws. Topics include creating a legally compliant record keeping system which addresses issues of technological options, confidentiality, correct filing, record retention, and document posting. Regulations

regarding recordkeeping are discussed in-depth, including regulations on confidentiality, privacy, leaves of absence, wage and hour, safety, medical information, benefits, and identity theft. Includes hands-on use of a functioning Human Resource Information System (HRIS) database.

HR 63 HUMAN RESOURCE HIRING PROCESS

(Formerly HR 65.1) 1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course covers the fundamental role of Human Resources in the hiring process in California. Content covers techniques for attracting and identifying qualified applicants and interviewing and selecting the best candidate to meet the organizational needs. Emphasis is on legal compliance and best practices in the hiring process.

HR 64 HUMAN RESOURCE SALARY ADMINISTRATION

(Formerly HR 65.2) 1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Fundamentals of salary administration in California, including the impact of financial compensation on recruitment and retention of employees. Emphasis is on determining the market rate, utilizing salary surveys, differentiating between types of salary programs, and determining exempt or non-exempt status according to California and Federal regulations.

HR 65 HUMAN RESOURCE BENEFITS ADMINISTRATION

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Fundamentals of employee benefits programs and leaves of absence requirements. Content covers interpretation of California and Federal law to correctly administer employee benefits and leaves of absence. Topics emphasize the administration of group benefits including health and survivor insurance, government mandated insurance, defined benefit & defined contribution retirement benefits, as well as family, medical, and pregnancy leaves of absence.

HR 66 HUMAN RESOURCE ADMINISTRATION CURRENT APPLICATIONS

1 Unit/1 hour lecture. Grade or P/NP. Prerequisite: Completion or concurrent enrollment in HR 60 AND HR 61 AND HR 62 AND HR 63 AND HR 64 AND HR 65 AND BAD 52 AND BMG 53 AND CS 61.11A and CS 61.11B. Recommended: Eligibility for ENGL 100 or ESL 100 or appropriate placement based on AB705 mandates.
Transferability: CSU.
Description: Overview of Human Resource developments and recent changes in California and Federal law, recent employment related court cases, and current issues and trends affecting Human Resource administration. Utilization of resources to successfully solve problems, create a professionally written document, and a correctly prepared spreadsheet on employee benefits. Demonstration of mastery of all information learned through the Human Resource Program.

HR 99I HUMAN RESOURCES OCCUPATIONAL WORK EXPERIENCE INTERN

1-8 Units/Up to 34.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of HR 60 and HR 62. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an interview, placement and verification of employment because intern position must be secured prior to enrollment.

Transferability: CSU.
Description: Human Resources Occupational Work Experience Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship placement; and supervised employment of students that extends to the job site classroom learning and relates to the student's educational or occupational goal. Students eligible for internships will have declared a major in Human Resources, have completed courses in their major, or have acquired a high level of skill in their discipline, and are ready for on-the-job experience in a paid (75 hours/unit) position. Students will acquire new knowledge, skills, and abilities to prepare for a career in Human Resources.
16 Units Total (WrxEx only)

HUMANITIES (HUMAN)

HUMAN 4.1 WESTERN HUMANITIES: ARTS, IDEAS, AND VALUES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: An interdisciplinary approach to the study of the arts, ideas and values of the West. Emphasis will be placed on the visual arts, drama, music, literature, philosophy and religion within a cultural context. The course will cover prehistory, ancient Mesopotamia, Egypt, Greece, Rome, and the Middle Ages to the Renaissance.

HUMAN 4.2 WESTERN HUMANITIES FROM 1600

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: An interdisciplinary approach to the study of the arts, ideas, and values of Western culture. The course will focus on the visual arts, drama, music, literature, philosophy, and religion within a cultural context. It will cover the Baroque, Neoclassical, Romantic, Modern, and Postmodern periods (1600 to present).

HUMAN 5 WORLD HUMANITIES: ARTS, IDEAS, VALUES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C2;IGETC area 3B*
Description: An interdisciplinary approach to the study of the arts, ideas, and values of selected world cultures. The course will focus on the visual arts, drama, music, literature, philosophy, and religion--identifying both their interconnectedness and inherent diversity. The course may be taught chronologically or thematically.

HUMAN 6 HUMANITIES IN THE UNITED STATES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,G;CSU area C2;IGETC area 3B*
Description: An interdisciplinary pluralistic exploration of Humanities in the United States. The course will explore

the cultural contributions of at least three ethnic groups, focusing on the visual arts, music, drama, film, literature and philosophical/religious thought in the United States. Course materials may be presented either chronologically or thematically.

HUMAN 7 INTRODUCTION TO THE HUMANITIES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: An introduction to the humanities focusing on the visual arts, drama, film, music, dance, literature, philosophy and religion as forms of human expression. Emphasis will be on understanding and appreciating a variety of cultural expressions within their cultural context. The course may be taught thematically or may focus on a specific period of time.

HUMAN 8 COMPARATIVE MYTHOLOGY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: This course investigates myths representing diverse global cultures; introduces scholarly theories and methods of interpretation; compares and contrasts plot structures, themes and character types within and across cultures; analyzes the creation of modern myths; and traces myth's relationship with language, history, politics, religion and the arts.

HUMAN 20 THE HUMANITIES IN ASIA: ARTS, IDEAS AND VALUES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: An interdisciplinary exploration of the arts, ideas and values among the cultures of East, Southeast, South and/or Central Asia, with focus upon works of literature, film, visual art, music, theater and dance, philosophy and religion as pertaining to the various disciplines of the humanities in Asia.

HUMAN 21 THE HUMANITIES IN THE MIDDLE EAST

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: An interdisciplinary exploration of the arts, ideas, and values among the cultures of the Middle East (aka Near East) drawing upon works of literature, film, visual art, music, theatre, dance, philosophy and religion.

HUMAN 22 HUMANITIES IN AFRICA: ARTS, IDEAS, AND VALUES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C2;IGETC area 3B*
Description: An interdisciplinary exploration of the arts, ideas and values among the cultures across the African continent.This course will focus upon works of literature, film, visual art, music, theater and dance. Course will also focus on religion and philosophy as they pertain to the various disciplines of the humanities in Africa.

HUMAN 49 INDEPENDENT STUDY IN HUMANITIES

1-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: At least one prior course in the relevant discipline. Eligibility for English 1A. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Seminars and individual conferences by arrangement to provide for independent study and an enriched academic experience in the Humanities. UC determines credit AFTER transfer; not counted for admissions. (See a counselor for details)

INDUSTRIAL EDUCATION (IED)

IED 190 INDUSTRIAL MATHEMATICS

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of CSKLS 371.
Description: Concepts of industrial mathematics geared to students pursuing careers in the automotive, diesel, machine tool and welding fields. Includes a study of basic math, fractions, decimals, conversions, fundamental algebraic equations and basic geometry.

INTERDISCIPLINARY STUDIES (INTDIS)

INTDIS 2 POPULAR CULTURE IN THE UNITED STATES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,G;CSU area C2;IGETC area 3B*
Description: This class examines the relationship between individual identity and large-scale historical forces for the creation of popular culture.

INTDIS 4 CULTURE AND VALUES IN LATIN AMERICA AND THE CARIBBEAN

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C2;IGETC area 3B*
Description: An interdisciplinary exploration of the history, cultures, intellectual endeavors and societies in both Latin America and the Caribbean.

INTDIS 90 STUDY ABROAD LIFE AND CULTURE

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Admission to Program
Transferability: CSU.
Description: This course is designed to introduce students to the culture of a foreign country as part of the Study

Abroad Program. Through a combination of academic lectures by experts, organized activities like field trips and interactions with locals, students will acquire an understanding of local cultures. Students must be accepted into the Semester Abroad Program.

INTERIOR DESIGN (INDE)

INDE 20 INTRODUCTION TO INTERIOR DESIGN

(Formerly INDE 61.1) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: This course covers interior design principles and elements; influences of historical, cultural and functional design factors; and the selection and arrangement of interior furnishings and materials. Career options in interior design will be included.

INDE 50 DRAFTING AND DRAWING FOR INTERIORS

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course covers basic design drawing techniques used for interior design. Students will learn to manually draft interior floor plans, elevations, and sections in scale; including drawing furniture to scale. This course will also introduce students to the principles and techniques used in interior illustration. Emphasis will be placed on drawing and linear perspective using light, and shadow, and pencil rendering of furniture, interior finishes and accessories.

INDE 52 INTERIOR ENVIRONMENT AND SPACE PLANNING

(Formerly INDE 80.1) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of INDE 20 and INDE 50.
Transferability: CSU.
Description: Analysis and application of design concepts, space planning techniques and resources necessary to creatively solve problems related to the function and quality of our human environment. The integration of barrier-free design, resource management and environmental psychology into a functional design is explored.

INDE 62 HISTORY OF INTERIOR DESIGN

(Formerly INDE 62.1) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
GE: *AA/AS area E;CSU area C1*
Description: An examination of the history of interior design around the world from ancient times to the present. Economic, social, political, cultural, and artistic influences will be interwoven throughout.

INDE 63 INTERIOR PRODUCTS, MATERIALS, AND LIGHTING

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Introduction to products and materials used in interior design, including flooring, wall coverings,

furniture, window treatments, accessories and interior lighting for residential and commercial interiors. The life cycle of products and materials used in interiors, their impact on building occupants, and Indoor Environmental Quality (IEQ) indicators will be discussed.

INDE 64 PROFESSIONAL PRACTICES FOR INTERIOR DESIGN

(Formerly INDE 64.1) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Business aspects of the interior design profession, including: ethics, contracts, licensing, ordering, client-designer relationships, costs, billing, and fee schedules. Students will gain experience measuring, estimating, and budgeting for a design project.

INDE 71 INTERIOR DESIGN STUDIO

(Formerly INDE 136) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of INDE 52 and INDE 63.
Transferability: CSU.
Description: This course covers the complete design process in planning space that is consistent with project and program requirements, applicable codes, and professional standards. A variety of team and individual design assignments selected to develop proficiency in the design process will be utilized.

INDE 73 PORTFOLIOS FOR INTERIOR DESIGN

(Formerly INDE 140) 2 Units/1.25 hours lecture, 2.25 hours laboratory. Grade Only. Prerequisite: Course completion of INDE 52 AND INDE 63.
Transferability: CSU.
Description: This course develops and refines students' interior illustration skillls as well as their understanding of format, graphic design, typography, concept development, and business communication. These principles and skills are applied to the development and production of an interior designer's portfolio for the purpose of job interviews and client presentations.

INDE 122 KITCHEN AND BATH DESIGN

(Formerly INDE 66.1) 3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of INDE 20. Recommended: Course Completion of INDE 50.
Description: Principles and elements of interior design for creating efficient and aesthetically pleasing kitchens and baths. Topics include space planning, equipment, appropriate materials, and building codes. Application of National Kitchen and Bath Standards for interior design. Students must provide their own drafting supplies.

ITALIAN (ITAL)

ITAL 1 ELEMENTARY ITALIAN-PART 1

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 6A*

Description: Beginning elementary speaking, listening, reading, and writing in Italian. Introduction to Italy and its cultures, including contributions to western civilization.

ITAL 2 ELEMENTARY ITALIAN-PART 2

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Italian 1 or two years of high school Italian or equivalent. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC areas 3B,6A*
Description: Continuation of elementary Italian langasge and culture with the increasing development of communication skills. Continuation of Italian 1.

ITAL 3 INTERMEDIATE ITALIAN-PART 1

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: ITAL 2 or three years of high school Italian or equivalent. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC areas 3B,6A*
Description: Speaking, reading and writing in Italian with discussions and essays to develop linguistic skill and cultural knowledge. Review of first-year linguistic and cultural content.

ITAL 4 INTERMEDIATE ITALIAN-PART 2

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Course Completion of ITAL 3. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC areas 3B,6A*
Description: Speaking, reading and writing in Italian with discussions and essays to further develop linguistic skill and cultural knowledge at the intermediate level. Review and expansion of Italian 1 through 3.

ITAL 39.1 INTRODUCTION TO ITALIAN LITERATURE IN TRANSLATION

(Formerly ITAL 80.1) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: This chronological survey of Italian literature in English translation introduces the principal movements, authors, and representative works of Italian literature from the 13th through the 18th centuries. Focus is on major themes of Italy's early history, intellectual evolution, political development, and social phenomena as reflected in various works of prose, poetry, and drama. The class is conducted in English.

ITAL 49 INDEPENDENT STUDY IN ITALIAN

1-3 Units/Up to 9 hours by arrangement. Grade Only. Prerequisite: Course Completion of ITAL 2. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Individual conferences or small group seminars by arrangement to provide for independent research and enriched academic experience in Italian, culminating in a final written and/or oral product. Course content

varies but must not replicate the content of existing courses and is established according to the independent study application process. Students should have at least a 2.00 (C) grade average in all courses previously taken in Italian. NOTE: UC determines credit AFTER transfer; not counted for admission. See a counselor for details.

ITAL 50A ITALIAN CONVERSATION FOR BEGINNERS - PART 1

3 Units/3 hours lecture, 1 hour by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: A beginning conversational Italian course designed to develop those listening and speaking skills needed at school, on the job, and in the community. Students participate in a variety of pronunciation, listening and conversational activities. An introduction to the core grammatical structures and vocabulary required for communication.

ITAL 50B ITALIAN CONVERSATION FOR BEGINNERS - PART 2

3 Units/3 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Course Completion of ITAL 50A or ITAL 1 or equivalent. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: A continuation of Beginning Conversational Italian course designed to improve those listening and speaking proficiencies needed at school, on the job, in the community, and in the Italian-speaking world. Students participate in a variety of pronunciation, listening, and conversational activities. An introduction to and development of the core grammatical structures and vocabulary required for communication.

ITAL 50C INTERMEDIATE ITALIAN CONVERSATION, PART 1

3 Units/3 hours lecture, 3 hours by arrangement. Grade or P/NP. Prerequisite: Course Completion of ITAL 50B OR Course Completion of ITAL 2.
Transferability: CSU.
Description: A beginning intermediate conversational Italian course designed to improve fluency through expansion of active vocabulary, attention to verb tense usage and oral practice.

ITAL 58 INTERMEDIATE ITALIAN CONVERSATION, PART 2

2 Units/2 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Course Completion of ITAL 50C OR ITAL 3 or equivalent. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: This high-intermediate Italian conversation course is designed to expand and refine more advanced oral communication, further developing those listening and speaking skills needed for effective cross-cultural understanding in various social, academic, and professional situations.

ITAL 70A INTERMED ITALIAN CONVERSATION & CULTURE THRU FILM I

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ITAL 50B OR Course Completion of ITAL 2. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
GE: *AA/AS area E;CSU area C2*
Description: Course focuses on improving conversational ability and cultural comprehension through the study of film as a reflection of and a comment on Italian history and culture. Films will be studied in their original language, and course will be conducted with emphasis on expanding and reviewing Italian language skills.

JAPANESE (JAPAN)

JAPAN 1 ELEMENTARY JAPANESE - PART 1

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 6A*
Description: Introduction to elementary Japanese grammar and development of all language skills (listening, speaking, reading, and writing) needed to effectively communicate using Japanese cultural patterns and conventions.

JAPAN 2 ELEMENTARY JAPANESE - PART 2

4 Units/4 hours lecture, 1 hour by arrangement. Grade Only. Prerequisite: Course Completion of JAPAN 1 (or JAPAN 51). Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 6A*
Description: A high-beginning/low intermediate communication course designed to improve those listening, speaking, and writing skills needed for cross-cultural understanding in social, academic and work-related situations.

JOURNALISM (JOUR)

JOUR 1 INTRODUCTION TO JOURNALISM

3 Units/3 hours lecture. Grade Only. Prerequisite: Concurrent Enrollment in JOUR 1L. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: JOUR 110;JOUR 110
Description: Introduction to journalism, news reporting and writing with an emphasis on journalistic standards, media ethics and the changing nature of the news industry. Students will learn fundamental reporting skills and write news and feature articles for possible publishing in the Oak Leaf college newspaper and/or website.

JOUR 1L INTRODUCTION TO JOURNALISM LAB

0.5 Unit/1.5 hours by arrangement. Grade Only. Prerequisite: Concurrent Enrollment in JOUR 1. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: JOUR 110 Series
Description: A lab course in which students will practice Journalism 1 skills involving reporting, news gathering, news and feature writing, editing and applying AP Style.

JOUR 2 NEWS GATHERING AND NEWS WRITING

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Concurrent Enrollment in JOUR 2L. Recommended: Course Completion of JOUR 1 (or JOUR 1A) and Course Completion of JOUR 1 (or JOUR 1A) and Course Eligibility for ENGL 1ACourse Eligibility for ENGL 1A.
Transferability: CSU;UC.
C-ID: JOUR 210
Description: Advanced writing class for print and online media. Students will build skills in deadline news writing and learn to report, write and use multimedia for a variety of story types, including news, opinion, social issues, entertainment reviews and feature/investigative pieces.

JOUR 2L NEWS GATHERING AND NEWS WRITING LAB

0.5 Unit/1.5 hours by arrangement. Grade or P/NP. Prerequisite: Concurrent Enrollment in JOUR 2. Recommended: Course Completion of JOUR 1 and Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: A lab course in which students will practice Journalism 2 skills involved in learning to develop ideas, report, write and use multimedia for a variety of story types, including news, opinion, social issues, entertainment reviews and feature/investigative pieces.

JOUR 52A NEWS MEDIA PRACTICE 1

5 Units/2 hours lecture, 9 hours laboratory. Grade Only. Recommended: Course Completion or Concurrent Enrollment in JOUR 1.
Transferability: CSU.
C-ID: JOUR 130
Description: A lecture/laboratory course that produces The Oak Leaf, the college newspaper and website. Students learn journalistic standards, media ethics, writing, editing, design, multimedia, social media and other skills required in modern news production.

JOUR 52B NEWS MEDIA PRACTICE 2

5 Units/2 hours lecture, 9 hours laboratory. Grade Only. Prerequisite: JOUR 52A with a grade of "C" or better.
Transferability: CSU.
C-ID: JOUR 130
Description: A lecture/laboratory course that produces The Oak Leaf, the college newspaper and website. Students learn journalistic standards, media ethics, writing, editing, design, multimedia, social media and other skills required in modern news production.

JOUR 52C NEWS MEDIA PRACTICE 3

5 Units/2 hours lecture, 9 hours laboratory. Grade Only. Prerequisite: JOUR 52B with a grade of "C" or better.
Transferability: CSU.
C-ID: JOUR 131
Description: A lecture/laboratory course that produces The Oak Leaf, the college newspaper and website. Students learn journalistic standards, media ethics, writing, editing, design, multimedia, social media and other skills required in modern news production.

JOUR 52D NEWS MEDIA PRACTICE 4

5 Units/2 hours lecture, 9 hours laboratory. Grade Only. Prerequisite: Course Completion of JOUR 52C.
Transferability: CSU.
C-ID: JOUR 131
Description: A lecture and laboratory capstone course that produces The Oak Leaf, the college newspaper and website. Students apply journalistic standards, media ethics, writing, editing, design, multimedia, social media and other skills to produce print and web versions of The Oak Leaf. Journalism 52D students assume leadership positions in running The Oak Leaf and teach specialized workshops to other staff members.

JOUR 54A MAGAZINE JOURNALISM: WRITING AND PRODUCTION 1

(Formerly JOUR 54) 3 Units/2.5 hours lecture, 2.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion or Concurrent Enrollment in JOUR 1.
Transferability: CSU.
Description: Introduction to the magazine industry and to writing and producing articles for publication. Students will learn to develop story ideas, submit query letters, conduct research and interviews, write and edit articles. Students can publish and market finished pieces in an online SRJC magazine or submit queries to outside publications.

JOUR 54B MAGAZINE JOURNALISM: WRITING AND PRODUCTION 2

3 Units/2.5 hours lecture, 2.5 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of JOUR 54A. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: Advanced studies in magazine article writing and production in which students will publish and market an online and/or print magazine from story idea to completed product. Students will develop stories and themed content for the online SRJC magazine, or submit queries and content to outside publications.

JOUR 55 MULTIMEDIA REPORTING

3 Units/2 hours lecture, 1 hour laboratory, 2 hours by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion or Concurrent Enrollment in JOUR 1 OR JOUR 2.
Transferability: CSU.
C-ID: JOUR 120
Description: This course provides students with hands-on training to learn how to create and edit text, audio, video and photos to produce multimedia news and feature stories for the web.

JOUR 59 PHOTOJOURNALISM

3 Units/2 hours lecture, 4 hours laboratory. Grade Only. Recommended: Course Completion of JOUR 1 OR JOUR 52A.
Transferability: CSU.
Description: Introduction to contemporary photojournalism skills and techniques for newspapers, magazines and online media. Students may provide photographic or video coverage of events for campus news media. Requires access to a DSLR (Digital Single-Lens Reflex) camera with manual option.

JOUR 106 EDITING FOR NEWS MEDIA

1.5 Units/1 hour lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent; AND Course Completion of JOUR 1 OR JOUR 2.
Description: Editing for print and online news media. Students will learn how to edit for content, clarity, precision, grammar, punctuation and Associated Press (AP) Style.

KINESIOLOGY AQUATICS (KAQUA)

KAQUA 1 INTRODUCTION TO SWIMMING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This class is an introduction to water for non-swimmers and will include basic swim techniques, and water safety protocol.

KAQUA 1.1 BEGINNING SWIMMING

(Formerly PHYED 12.1) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This class consists of basic swim strokes that include the front crawl, back crawl, and backstroke. In addition to swimming, this class also includes basic water safety skills and knowledge leading to safe practices while in, on or about the water.

KAQUA 1.2 INTERMEDIATE SWIMMING

(Formerly PHYED 12.2) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KAQUA 1.1.
Transferability: CSU;UC.
Description: This class consists of intermediate swim strokes that include the front crawl, back crawl, side stroke, breast stroke and backstroke. In addition to swimming, this class also includes basic water safety skills and knowledge leading to safe practices while in, on, or about the water.

KAQUA 1.3 ADVANCED SWIMMING

(Formerly PHYED 12.3) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KAQUA 1.2.
Transferability: CSU;UC.
Description: This class consists of advanced swim strokes that include the front crawl, back crawl, breaststroke and butterfly. In addition to swimming, this class also includes basic water safety skills and knowledge of advanced swimming skills to work toward a higher level of cardiovascular fitness.

KAQUA 1.4 TRAINING FOR THE COMPETITIVE SWIMMER

(Formerly ATHL 6) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KAQUA 2.3. Limits on enrollment: By tryout first day of class
Transferability: CSU;UC.
Description: Training program designed to develop skills and physical fitness needed for competitive swimming.

KAQUA 2.1 AQUATIC FITNESS

(Formerly PHYED 13.1) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KAQUA 1.2.
Transferability: CSU;UC.
Description: This class consists of aquatic fitness exercises, and advanced swim strokes that include the freestyle, backstroke, breaststoke, and butterfly. This class will introduce how to develop a training and conditioning program through the use of advanced swim strokes and dryland conditioning.

KAQUA 2.3 ADVANCED AQUATIC FITNESS

(Formerly PHYED 13.3) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KAQUA 2.1.
Transferability: CSU;UC.
Description: This class consists of aquatic fitness exercises, and advanced swim strokes that include the freestyle, backstroke, breaststoke, and butterfly. This class will continue to develop a training and conditioning program at an advanced level through the use of advanced swim strokes and dryland conditioning.

KAQUA 3.1 BEGINNING AQUATIC CALISTHENICS

(Formerly PHYED 16) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This water aerobics course will include beginning level aquatic calisthenic exercise. This class will include a variety of beginning water exercises.

KAQUA 3.2 INTERMEDIATE AQUATIC CALISTHENICS

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This water aerobics course will include intermediate level aquatic calisthenic exercise. This course also covers aquatic calisthenic program design and hydrodynamic principles, and will prepare students to apply intermediate level aquatic calisthenic skills and techniques to a fitness program.

KAQUA 4.1 DEEP WATER RUNNING

(Formerly PHYED 17) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KAQUA 1.1.
Transferability: CSU;UC.
Description: Deep water running and other aquatic exercises for improving fitness, cross training, water safety, and rehabilitation. Workout composition, proper body mechanics, aquatics rehabilitation skills, and water safety skills will be presented.

KAQUA 10.1 BEGINNING SPRINGBOARD DIVING

(Formerly PHYED 18) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Beginning springboard diving skills using one and three meter diving boards.

KAQUA 10.2 INTERMEDIATE SPRINGBOARD DIVING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Instruction in intermediate diving skills with a focus on competitive dives and flexibility and strength for performance.

KAQUA 12.1 BEGINNING WATER POLO

(Formerly PHYED 19.1) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KAQUA 1.2.
Transferability: CSU;UC.
Description: This class consists of basic water polo skills and techniques that include ball handling, dribbling, passing, shooting, and blocking. This class also includes an introduction to the rules of the game as well as basic tactical strategies for offense and defense.

KAQUA 12.2 INTERMEDIATE WATER POLO

(Formerly PHYED 19.2) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KAQUA 12.1.
Transferability: CSU;UC.
Description: This class consists of intermediate water polo skills and techniques that include ball handling, dribbling, passing, shooting, and blocking. This class also includes a review of the rules of the game, team offense, team defense, developing players at specific positiions, and an introduction to specific team plays and strategies.

KAQUA 12.3 TRAINING FOR COMPETITIVE WATER POLO

(Formerly KAQUA 11.1) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KAQUA 12.2. Limits on enrollment: By tryout
Transferability: CSU;UC.
Description: This course provides a training program to enhance performance in water polo. This course is intended for students with water polo experience who may be interested in trying out for the water polo team as well as those who are already playing on the team.

KAQUA 21 LIFEGUARD TRAINING

(Formerly KINES 21) 2 Units/2 hours lecture, 0.5 hour laboratory. Grade or P/NP. Recommended: Course Completion of KAQUA 1.3.
Transferability: CSU;UC.
Description: Provides students with the skills and knowledge needed to prevent and respond to aquatic emergencies to help sustain life, reduce pain, and minimize the consequences of injury or sudden illness until more advanced medical help can arrive. This course adheres to American Red Cross (ARC) standards. Also meets the first aid, CPR and aquatic training requirements as specified by state code to be a lifeguard in California.

KINESIOLOGY COMBATIVE (KCOMB)

KCOMB 1.1 TAI CHI - CHEN STYLE

(Formerly KCOMB 1) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This class is designed for individuals of all fitness levels who want to improve balance, concentration, focus, flexibility, breathing, and mind/body awareness through practicing Chen Style Tai Chi. Applications of Tai Chi principles and Qigong breathing techniques will be covered. Students will be introduced to Chen Style Tai Chi form, a series of flowing movements developed for personal cultivation, health improvement, and self defense.

KCOMB 1.2 TAI CHI - YANG STYLE

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This class is designed for individuals of all fitness levels who want to improve balance, concentration, focus, flexibility, breathing, and mind/body awareness through practicing Yang Tai Chi. Applications of Yang Tai Chi principles and Qigong breathing techniques will be covered. Students will be introduced to Yang Style Tai Chi Chuan, a series of flowing movements developed for personal cultivation, health improvement, and self defense.

KCOMB 1.3 TAI CHI - WUDANG STYLE

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This class is designed for individuals of all fitness levels who want to improve balance, concentration, focus, flexibility, breathing, and mind/body awareness through practicing Wudang Tai Chi form. Applications of Wudang Tai Chi principles and Qigong breathing techniques will be covered. Students will be introduced to Wudang Style Tai Chi, a series of flowing movements developed at Wudang Mountain for personal cultivation, health improvement, and self defense.

KCOMB 1.4 TAI CHI - SWORD

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This class is designed for individuals of all fitness levels who want to improve balance, concentration, focus, flexibility, breathing, and mind/body awareness through practicing Tai Chi Sword form. Applications of Tai Chi Sword principles and Qigong breathing techniques will be coveredl. Students will be introduced to Tai Chi Sword forms training, a series of flowing movements developed primarily from Martial arts techniques and then adjusted based on observation of nature.

KCOMB 2.1 BEGINNING JUDO

(Formerly PHYED 70.1) 1 Unit/2 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: An introductory judo course that emphasizes judo history, vocabulary, rules and methods of competition, fundamental throwing, falling, and grappling techniques.

KCOMB 2.2 INTERMEDIATE JUDO

(Formerly PHYED 70.2) 1 Unit/2 hours laboratory. Grade or P/NP. Recommended: Course Completion of KCOMB 2.1.
Transferability: CSU;UC.
Description: A progressive course designed for the continuing judo student with emphasis on intermediate level judo throws, locks, pins, and grips. This course will include increasing levels of judo fitness, as well as history of judo in America.

KCOMB 2.3 ADVANCED JUDO

(Formerly PHYED 70.3) 1 Unit/2 hours laboratory. Grade or P/NP. Recommended: Course Completion of KCOMB 2.2.
Transferability: CSU;UC.
Description: A progressive course designed for the experienced judo student with an emphasis on advanced judo techniques including combinations and Katas. There will be an emphasis on increasing the student's level of fitness, history, vocabulary, and developmental aspects of competitive judo.

KCOMB 3.1 BEGINNING KARATE

(Formerly PHYED 71.1) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The course will emphasize beginning karate techniques, fundamentals, and strategies that include, kata and sparring as well as various conditioning exercises that develop speed, power, reaction and flexibility.

KCOMB 3.2 INTERMEDIATE KARATE

(Formerly PHYED 71.2) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KCOMB 3.1.
Transferability: CSU;UC.
Description: This course will emphasize intermediate karate fundamentals, techniques, and strategies that include kata and sparring as well as various conditioning exercises that develop speed, power, reaction and flexibility.

KCOMB 4 INTRODUCTION TO BOXING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This introductory class is for first- time boxing students and will include an introduction to basic boxing training techniques, fitness principles and nutrition for high impact exercise.

KCOMB 4.1 BEGINNING BOXING

(Formerly PHYED 72.1) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This course is designed to introduce students to beginning boxing fundamentals, as well as challenge and build cardiovascular efficiency, muscular strength and flexibility with respect to boxing.

KCOMB 4.2 INTERMEDIATE BOXING

1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KCOMB 4.1.
Transferability: CSU;UC.
Description: This course advances students from basic boxing fundamentals and techniques to an intermediate level, while enhancing fitness, balance, flexibility and strength.

KCOMB 5.1 BEGINNING FOIL FENCING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Fundamentals of French foil fencing with an emphasis in basic footwork, attacks, parries, bladework, and bout experience.

KCOMB 5.2 INTERMEDIATE FOIL FENCING

1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KCOMB 5.1.
Transferability: CSU;UC.
Description: This course is designed for students progressing in foil fencing and will include intermediate level techniques with an emphasis in on guard position, attacks, parries, ripostes to combination of skills, and match experiences.

KCOMB 5.3 ADVANCED FOIL FENCING

1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KCOMB 5.2.
Transferability: CSU;UC.
Description: This course is designed for students progressing in foil fencing and will include advanced level techniques with an emphasis on strategies for competition, individual lesson skills, with both giving and taking, and advanced refereeing skills in bouts using competitive electric scoring.

KCOMB 6.1 BEGINNING SABRE FENCING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This class provides instruction on beginning sabre fencing skills. Activities include daily warm-up, footwork practice, paired off drills on new actions and free bouting. The class also includes occasional refereed bouts with the students acting as judges.

KCOMB 6.2 INTERMEDIATE SABRE FENCING

1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KCOMB 6.1.
Transferability: CSU;UC.
Description: This course is designed for students progressing in sabre fencing and will include intermediate level techniques with an emphasis in on guard position, attacks, parries, ripostes to combination of skills, and match experiences.

KCOMB 6.3 ADVANCED SABRE FENCING

1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KCOMB 6.2.
Transferability: CSU;UC.
Description: This course is designed for students progressing in sabre fencing and will include advanced level techniques with an emphasis on strategies for competition, individual lesson skills, with both giving and taking, and advanced refereeing skills in bouts using competitive electric scoring.

KCOMB 7.1 BEGINNING EPEE FENCING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Fundamentals of Epee fencing with an emphasis in basic footwork, attacks, parries, bladework, and bout experience.

KCOMB 7.2 INTERMEDIATE EPEE FENCING

1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KCOMB 7.1.
Transferability: CSU;UC.
Description: This course is designed for students progressing in epee fencing and will include intermediate level techniques with an emphasis in en garde position, attacks, parries, ripostes to combination of skills, and match experiences.

KCOMB 7.3 ADVANCED EPEE FENCING

1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KCOMB 7.2.
Transferability: CSU;UC.
Description: This course is designed for students progressing in epee fencing and will include advanced level techniques with an emphasis on strategies for competition, individual lesson skills, with both giving and taking, and advanced refereeing skills in bouts using competitive electric scoring.

KCOMB 10 PERSONAL SAFETY & SELF DEFENSE

(Formerly PHYED 66) 1 Unit/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Instruction in personal safety and assault prevention with an emphasis on physical and psychological aspects of personal defense. Physical defensive tactics and techniques are included.

KINESIOLOGY FITNESS (KFIT)

KFIT 1.1 BEGINNING AEROBIC DANCE

(Formerly PHYED 27.1) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The focus of this course is beginning level aerobic dance, a physical activity designed to increase cardiovascular/respiratory fitness, improve muscular strength and endurance, increase flexibility, and enhance body awareness. Movement patterns to music will be presented. Activities may include other forms of aerobic exercise and resistance training.

KFIT 1.2 INTERMEDIATE AEROBIC DANCE

(Formerly PHYED 27.2) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KFIT 1.1.
Transferability: CSU;UC.
Description: The focus of this course is intermediate aerobic dance, a physical activity designed to increase cardiovascular/respiratory fitness, improve muscular strength and endurance, increase flexibility, and enhance body awareness. Movement patterns to music will be presented. Activities may include other forms of aerobic exercise and resistance training. Students are to perform exercises at an intermediate level with greater intensity and complexity than beginning aerobic dance.

KFIT 2.1 BEGINNING STEP AEROBICS

(Formerly PHYED 28.1) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The focus of this course is Step Training, an aerobic activity incorporating a platform, sometimes accompanied by risers, designed to increase cardiovascular/respiratory fitness and improve muscular strength and endurance. Basic step patterns and movement combinations choreographed to music will be presented. Activities may include other forms of aerobic exercise, resistance/core training, static stretching, and relaxation.

KFIT 2.2 INTERMEDIATE STEP AEROBICS

(Formerly PHYED 28.2) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KFIT 2.1.
Transferability: CSU;UC.
Description: The focus of this course is Intermediate Step Training, an aerobic activity incorporating a platform and sometimes with risers, designed to increase cardiovascular/respiratory fitness and improve muscular strength and endurance. Intermediate step patterns and movement combinations choreographed to music will be presented. Activities may include other forms of aerobic exercise, resistance/core training, static stretching, and relaxation.

KFIT 3.1 BEGINNING BODY CONDITIONING

(Formerly PHYED 31.1) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The purpose of this course is to provide students with an exercise program designed to develop the key components of health related physical fitness: cardiovascular/respiratory conditioning, muscular strength, muscular endurance, flexibility, and body composition.

KFIT 3.2 INTERMEDIATE BODY CONDITIONING

(Formerly PHYED 31.2) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The purpose of this course is to provide students with an intermediate level exercise program designed to further develop the key components of health related physical fitness: cardiovascular/respiratory conditioning, muscular strength, muscular endurance, flexibility, and body composition.

KFIT 3.3 ADVANCED BODY CONDITIONING

(Formerly PHYED 31.3) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The purpose of this course is to provide students with an advanced level exercise program designed to further develop the key components of health related physical fitness: cardiovascular/respiratory conditioning, muscular strength, muscular endurance, flexibility, and body composition.

KFIT 4.1 BODY MECHANICS

(Formerly PHYED 32) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Exercises for fitness with an emphasis on core strength, flexibility, posture, and muscle tone. Activities may include forms of aerobic exercise, resistance training, yoga, and Pilates movements.

KFIT 5 INTRODUCTION TO PILATES MAT

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This class is designed for individuals with no previous Pilates experience and will include basic Pilates training techniques, fitness principles and nutrition information for a healthy lifestyle.

KFIT 5.1 BEGINNING PILATES MAT

(Formerly PHYED 33) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This beginning level class is designed for individuals with no previous Pilates experience. Students will improve overall movement efficiency, correct muscle imbalances, increase core strength, and develop the mind/body connection during movement based on the original techniques developed by Joseph H. Pilates. Students will be introduced to principles of proper alignment, strength, endurance, flexibility, balance and coordination using beginning level mat exercises.

KFIT 5.2 INTERMEDIATE PILATES MAT

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This intermediate level class is designed for individuals with previous Pilates experience. Students will improve overall movement fluidity, breathing techniques, kinesthetic awareness, proprioception, core strength and endurance while integrating the mind/body connection during movement based on the original techniques developed by Joseph H. Pilates. Students will learn principles of proper alignment, strength, endurance, flexibility, balance and coordination using intermediate level mat exercises.

KFIT 5.3 ADVANCED PILATES MAT

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This class is designed for individuals of advanced fitness levels who want to increase overall movement efficiency, correct muscle imbalances, increase core strength and develop the mind/body connection during movement based on the original techniques developed by fitness pioneer, Joseph H. Pilates. Students will practice principles of proper alignment, strength, endurance, flexibility, balance and coordination through advanced level mat exercises. Breathing techniques will be learned to facilitate smooth and efficient movement, promote sufficient oxygen circulation and enhance kinesthetic awareness.

KFIT 6 INTRODUCTION TO YOGA

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This introductory level class is designed for individuals with no previous yoga experience. Using Hatha yoga asanas (postures), students will practice introductory level flexibility, strength, balance, and coordination. Yoga techniques for mind-body connection and centering will include breathing and relaxation methods.

KFIT 6.1 BEGINNING YOGA

(Formerly PHYED 35) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This beginning level class is designed for individuals with no previous yoga experience, Using Hatha yoga asanas (postures), students will emphasize beginning level flexibility, strength, balance, and coordination. Yoga techniques for mind-body connection and centering will include breathing and relaxation methods.

KFIT 6.2 INTERMEDIATE YOGA

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This intermediate level class is designed for individuals with previous yoga experience. Using Hatha yoga asanas (postures), students will emphasize intermediate level flexibility, strength, balance, and coordination. Course covers the history of yoga, chakras, meditation, and the eight limbs of yoga.

KFIT 6.3 ADVANCED YOGA

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This course, using Hatha Yoga asanas (postures), will emphasize advanced level flexibility, strength, balance, and coordination. Yoga techniques for mind-body connection and centering will include breathing and relaxation methods.

KFIT 7.1 BEGINNING CIRCUIT TRAINING

(Formerly PHYED 37) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Beginning circuit training for the purpose of establishing muscular strength and fitness. In addition to various circuit training techniques, this class may also include cardiovascular and core workouts.

KFIT 7.2 CIRCUIT TRAINING INTERMEDIATE

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Intermediate circuit training for the purpose of improving muscular strength and fitness. In addition to various circuit training techniques, this class may also include cardiovascular and core workouts.

KFIT 8 INTRODUCTION TO WEIGHT LIFTING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This introductory class is for first- time weight training students and will include an introduction to basic weight training techniques, fitness principles and nutrition.

KFIT 8.1 BEGINNING WEIGHT LIFTING

(Formerly PHYED 38) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Weight lifting for the purpose of establishing muscular strength and fitness. In addition to various weight lifting techniques, this class may also include other compnents of fitness.

KFIT 8.2 INTERMEDIATE WEIGHT TRAINING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Intermediate weight training for the purpose of establishing and building muscular strength and fitness. In addition to various weight training techniques, this class may also include cardiovascular and core strengthening workouts.

KFIT 10.1 RESISTANCE TRAINING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This course utilizes muscular strength and endurance training using a variety of modalities and equipment including but not limited to: machines, free weights, bars, exercise tubes, medicine balls, body weight, stability balls, and cables.

KFIT 11.1 PERIODIZED WEIGHT TRAINING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Periodization is a systematic, progressive weight training program that involves cycling through different phases of training in a planned time frame for optimal levels of adaptation and to prevent overtraining. Programs are designed based on intensity, volume, exercise order, rest periods, and workout frequency. Fitness assessments along with short term and long term goals will be developed to create and implement an appropriate training plan.

KFIT 12.1 POWER LIFTING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This class is designed to provide an opportunity to power train. Students will develop an

understanding of power lifting and how to implement it into a fitness plan. Power lifting is a system of heavy resistance and low repetition exercise that builds power in large muscle groups.

KFIT 15.1 PERSONAL FITNESS ACTIVITIES

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The purpose of this course is to provide students with an experience in personal program development and practice in all components of physical fitness including cardiovascular conditioning, muscular strength and endurance, flexibility, and body conditioning. Student must provide a Fitbit activity for course participation.

KFIT 16.1 PLYOMETRICS, SPEED AND AGILITY

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This course will introduce students to equipment and drills used to improve strength, power, speed, agility, and jumping ability while developing coordination and balance.

KFIT 17.1 INTERVAL TRAINING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Interval training is a discontinuous style of training where different intensities and/or types of exercises are alternated along with rest periods. Course will include various methods of interval training including a warm-up, cool-down, cardiovascular conditioning, muscular endurance, core training, and flexibility.

KFIT 20.1 ZUMBA

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This course focuses on Zumba dance fitness. Zumba uses Latin-inspired music and dance moves for cardiovascular conditioning. The course combines dance aerobics with interval training known as intermittent training. Activities may include other forms of cardiovascular exercise and resistance training.

KFIT 21.1 CARDIO KICKBOXING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This course emphasizes a total body workout through cardio kickboxing. Cardio kickboxing incorporates punches and kicks in a choreographed routine to music to improve cardiovascular conditioning, muscular endurance, and body composition. Course will also include resistance training and core exercises.

KFIT 25.1 VINYASA FLOW YOGA

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Vinyasa flow is a style of yoga where asanas/poses are performed in a sequence and synchronized with the breath. This style of yoga flows smoothly from one pose to the next, creating continuous movement that promotes cardiovascular and muscular conditioning. Flexibility, strength, balance, and coordination are also emphasized. This course covers the history and philosophy of yoga, breathing techniques and meditiation.

KFIT 26.1 GENTLE YOGA

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Gentle yoga is based on hatha style yoga yet is less strenuous than other forms. This class benefits students that may have physical challenges, limited flexibility or those looking for a more relaxed, stress reducing yoga experience.The course progresses at a slower pace and focuses on stretching all areas of the body, while releasing stress and tension from joints and muscles.Yoga techniques for stress reduction, including breathing, meditation, and relaxation methods will be emphasized.

KFIT 30.1 STABILITY BALL TRAINING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The focus of this course is core training exercise using a stability ball. Stability ball training emphasizes balance, proprioception, stability, and muscular endurance. Class may also include cardiovascular conditioning and flexibility training.

KFIT 31.1 PILATES YOGA FUSION

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This class blends concepts of yoga and Pilates into one class for a comprehensive mind/body workout. Class will include exercises for improving core strength, muscular endurance, coordination, stability and flexibility. Focus will be on proper breathing techniques, form, alignment and integration of both Pilates and yoga principles into the workout.

KFIT 32 INTRODUCTION TO BARRE FITNESS

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This introductory-level for students with no barre fitness experience combines ballet barre work, core conditioning, yoga, and therapeutic exercises with a focus on controlled movements and proper body alignment.

KFIT 32.1 BEGINNING BARRE FITNESS

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This beginning-level course for students with minimal barre fitness experience combines ballet barre work, core conditioning, yoga, and orthopedic exercises with a focus on controlled movements and proper body alignment.

KFIT 32.2 INTERMEDIATE BARRE FITNESS

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This intermediate-level course for students with previous barre fitness experience combines ballet barre work, core conditioning, yoga, and orthopedic exercises with a focus on controlled movements and proper body alignment.

KFIT 32.3 ADVANCED BARRE FITNESS

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This advanced-level course for experienced barre fitness students combines ballet barre work, core conditioning, yoga, and orthopedic exercises with a focus on controlled movements and proper body alignment.

KFIT 35.1 WALKING FOR FITNESS

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This course is designed to teach and apply the principles of lifetime physical fitness: cardio-respiratory endurance, muscular strength, muscular endurance, flexibility and body composition. A variety of health and wellness issues will be addressed. The components of fitness will be met through structured individually paced fitness, walking techniques and strength conditioning exercises.

KFIT 36.1 JOGGING FOR FITNESS

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The emphasis of this course is on life-long exercise principles combined with the immediate benefit of a strength and aerobic workout. Using jogging as the aerobic exercise of choice, this course examines cardio-respiratory fitness, exercise principles, and how to design and evaluate fitness programs/workouts. This course will emphasize target Heart Rate: how to find it and how to use it when establishing and evaluating goals. The student will experiment with different types of workout and be encouraged to apply the information to their own body and level of conditioning.

KFIT 37 INTRODUCTION TO BOOT CAMP TRAINING

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The course is an introduction to boot camp-style training through intense and vigorous cardiovascular and muscle strengthening exercises.

KFIT 37.1 BOOT CAMP

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The course emphasizes a whole body workout through boot camp-style training. Boot camp incorporates calisthenics, cardiovascular and muscular conditioning, agility, drills, and interval training.

KFIT 50 TEACHING AIDE

(Formerly PHYED 50) 1-2 Units/Up to 6 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Students enrolling in this class must have prior approval from the supervising faculty member.
Transferability: CSU.
Description: Teaching techniques for teacher's assistants in Kinesiology and Athletics. Student will assist faculty in a classroom environment for a semester. Students enrolling in this class must have prior approval from the supervising faculty member.

KFIT 55 PRINCIPLES OF SPORT PERFORMANCE & PERIODIZATION OF TRAINING

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: Course covers a broad range of training concepts and how to balance components such as skill, technique, endurance, speed, strength, mobility, flexibility, nutrition and recovery into training schedules of athletes and teams to achieve peak performance in a periodized (scheduled) and strategic format.

KINESIOLOGY INDIVIDUAL SPORTS (KINDV)

KINDV 1.1 BEGINNING WRESTLING

(Formerly PHYED 73.1) 1.5 Units/3 hours by arrangement. Grade or P/NP.
Transferability: CSU;UC.
Description: The course will emphasize beginning collegiate wrestling techniques, fundamentals, and strategies that include scholastic and freestyle as well as various conditioning exercises that develop speed, power, reaction and flexibility.

KINDV 1.3 ADVANCED WRESTLING

(Formerly PHYED 73.3) 1.5 Units/3 hours by arrangement. Grade or P/NP. Recommended: Course Completion of KINDV 1.1.
Transferability: CSU;UC.
Description: A progressive course designed for the advanced wrestling student with an emphasis on advanced wrestling techniques.There will be an emphasis on increasing the student's level of fitness, history, vocabulary, and developmental aspects of competitive collegiate wrestling.

KINDV 2.1 BEGINNING BADMINTON

(Formerly PHYED 77.1) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Introduction to badminton with emphasis on fundamental skills, strategies, and court etiquette.

KINDV 2.2 INTERMEDIATE BADMINTON

(Formerly PHYED 77.2) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KINDV 2.1.
Transferability: CSU;UC.
Description: Presentation of intermediate level badminton skills, participation in match play, and a review of the rules of the game. Improvement of individual skills, team techniques, and game strategies will be emphasized. Students will be required to attend one high school badminton match outside of the scheduled class time.

KINDV 2.3 ADVANCED BADMINTON

(Formerly PHYED 77.3) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KINDV 2.2.
Transferability: CSU;UC.
Description: Theory and practice of advanced badminton that includes advanced techniques and tactics of

tournament competition. This class will include drills, practice, and intensive review of rules and tournament play. Students will be required to attend one high school badminton match outside of the scheduled class time.

KINDV 3.1 BEGINNING GOLF

(Formerly PHYED 78.1) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The purpose of this course is to provide students with an understanding of the game of golf, along with fundamentals, techniques, rules, and etiquette. Through this course students will learn the correct mechanics needed for the basics of beginning golf.

KINDV 3.2 INTERMEDIATE GOLF

(Formerly PHYED 78.2) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KINDV 3.1.
Transferability: CSU;UC.
Description: The purpose of this course is to provide intermediate students with an understanding of the game of golf, along with strong fundamentals, rules, and etiquette. This course will enable every student to approach each situation with the knowledge and confidence needed to create a successful and more enjoyable round of golf.

KINDV 3.3 ADVANCED GOLF

(Formerly PHYED 78.3) 1 Unit/2 hours laboratory. Grade or P/NP. Recommended: Course Completion of KINDV 3.2.
Transferability: CSU;UC.
Description: Advanced skills of golf that simulate situations that would occur on a golf course. Driving range work that will include short game, all clubs, mental aspects of course management, and goal cards.

KINDV 4.1 BEGINNING TENNIS

(Formerly PHYED 80.1) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This course is designed to provide instruction in the fundamental skills, basic strategies, and the rules of tennis.

KINDV 4.2 INTERMEDIATE TENNIS

(Formerly PHYED 80.2) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KINDV 4.1.
Transferability: CSU;UC.
Description: The purpose of this course is to provide instruction for the intermediate tennis player including skill development and competitive strategies.

KINDV 4.3 ADVANCED TENNIS

(Formerly PHYED 80.3) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KINDV 4.2.
Transferability: CSU;UC.
Description: The purpose of this course is to provide advanced instruction in the techniques, tactics and strategies associated with competitive tennis. Special emphasis placed on drills and competitive play situations.

KINDV 5.1 BEGINNING TRACK AND FIELD

(Formerly PHYED 81.1) 1 Unit/2 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The purpose of this course is to provide students with an introduction to fundamental skills and basic

knowledge of track and field. Students will learn and demonstrate basic techniques and methods of selected track and field events including running, throwing, jumping and hurdling.

KINDV 5.2 INTERMEDIATE TRACK AND FIELD

(Formerly PHYED 81.2) 1 Unit/2 hours laboratory. Grade or P/NP. Recommended: Course Completion of KINDV 5.1.
Transferability: CSU;UC.
Description: The purpose of this course is to provide intermediate track and field students with an understanding of track and field including skills, methods, and strategies associated with specific events. Students will learn and demonstrate intermediate techniques and methods of selected running, throwing, jumping, and hurdling. Students will develop a training routine for selected events.

KINDV 5.3 ADVANCED TRACK AND FIELD

(Formerly PHYED 81.3) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KINDV 5.2.
Transferability: CSU;UC.
Description: The purpose of this course is to provide students with an understanding of advanced skills and techniques, methods, and strategies of selected track and field events. Students will demonstrate advanced techniques and methods of selected running, throwing, jumping, and hurdle events. Students will demonstrate a knowledge of strategies involved in college varsity track and field competition.

KINDV 79.1 INTRODUCTION TO PICKLEBALL

(Formerly PHYED 79) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU.
Description: The course will focus on the application of skills, techniques, game strategies and rules that make up the game of Pickleball.

KINDV 79.2 INTERMEDIATE PICKLEBALL

1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course completion of KINDV 79.1.
Transferability: CSU.
Description: The course will focus on the application of skills, techniques, game strategies and rules of intermediate pickleball.

KINDV 79.3 ADVANCED PICKLEBALL

1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KINDV 79.2.
Transferability: CSU.
Description: The course will focus on the application of skills, techniques, game strategies and rules of advanced pickleball.

KINESIOLOGY LECTURE (KINES)

KINES 1 INTRODUCTION TO KINESIOLOGY

(Formerly PHYED 1) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
C-ID: KIN 100
Description: This course is an introduction to the interdisciplinary approach to the science and study of human movement. This course provides an orientation to various educational pathways, requirements, and career opportunities in Kinesiology in the areas of teaching, coaching, therapeutic exercise, fitness and health, and sport management professions. Basic concepts of the Kinesiology discipline and an overview of the relevance of foundational sub-disciplines will be discussed. Issues, challenges, and current/future trends are also addressed.

KINES 2 SPORTS OFFICIATING FALL

(Formerly PHYED 2) 3 Units/3 hours lecture. Grade Only.
Transferability: CSU;UC.
Description: Rules interpretations, procedures, and necessary mechanics to effectively officiate selected individual and team sports.

KINES 3 SPORTS OFFICIATING SPRING

(Formerly PHYED 3) 3 Units/3 hours lecture. Grade Only.
Transferability: CSU;UC.
Description: Rules interpretations, procedures, and necessary mechanics to effectively officiate selected individual and team sports.

KINES 4 INTRODUCTION TO SPORTS MEDICINE

(Formerly PHYED 4) 3 Units/3 hours lecture, 1 hour laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
Description: This course will introduce the student to the field of sports medicine. Injury recognition, injury management, professional ethics, legal issues, interpersonal communication skills in an allied health setting, medical documentation, universal precautions, professionalism, psychosocial intervention, basic first aid concepts, tissue healing, therapeutic modalities, therapeutic rehabilitation exercises, and organization and administration of a sports medicine facility will also be included. This course is an elective for the Fitness, Nutrition and Health Certificate and Major.

KINES 5 SPORT AND SOCIETY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: Sports and athletes have often been agents of social change, many times challenging norms and assumptions concerning race, ethnicity, social class and gender. This course studies sport and society, highlighting how their interplay can provide social mobility and integration, yet produce stereotypes and foundations of inequality.

KINES 49 INDEPENDENT STUDY IN KINESIOLOGY, ATHLETICS AND/OR DANCE

(Formerly PHYED 49) 0.5-3 Units/Up to 9 hours by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.

Transferability: CSU;UC.
Description: Seminars or individual conferences by arrangement to provide for independent study and enriched academic experience. UC determines credit AFTER transfer; not counted for admission. (See a counselor for details.)

KINES 50 TEACHING PRACTICUM

1.5 Units/4.5 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Practical application and supervised practice of lead instruction techniques for students seeking to complete the Fitness, Nutrition, and Health Certificate/Major or the 200-Hour Yoga Teacher Training Certificate. Students will assist faculty in areas of administration, classroom management, teaching techniques, and instruction.

KINES 53 PRINCIPLES OF HEALTH AND WELLNESS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Course Eligibility for ENGL 100 OR Course Eligibility for ESL 100.
Transferability: CSU.
GE: *CSU area E*
Description: This course focuses on health and wellness concepts important in making informed choices about one's physical, mental, and emotional well-being. A personal approach to health and wellness will be explored through self-assessment and practical application to every day life. Topics such as fitness, obesity, weight management, nutrition, stress, substance use and abuse, prevention of diseases, sexual health, relationships, gender health differences, and environmental concerns will be discussed.

KINES 55 COACHING SPORTS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: Coaching Sports focuses on the components and characteristics of coaches and sport programs. Students will examine and develop coaching techniques, styles and philosophies pertaining to the planning, management and competition in sports.

KINES 59 PSYCHOLOGICAL ASPECTS OF SPORT PERFORMANCE

(Formerly PHYED 59) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Introduction to the physical, psychological, and motivational factors involved with sports performance. Content will examine the link between physical performance and the psychological aspects involved in sports competition. It will also cover a comparison of contemporary motivation techniques. Concentration, motivation and goal setting techniques will be covered.

KINES 62A SPORTS MEDICINE EXPERIENCE A

2 Units/6 hours by arrangement. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in KINES 4. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course will provide the student with the opportunity to observe and learn the principles and protocols of sports medicine and athletic training in a supervised clinical setting. This course starts the student with general sports medicine facility and athletic event observation. The practical experience gained in this course

will help the student prepare for a variety of professions within sports medicine and kinesiology and prepares pre-athletic training students for success in Commission on Accreditation of Athletic Training Education (CAATE) accredited athletic training programs.

KINES 62B SPORTS MEDICINE EXPERIENCE B

2 Units/6 hours by arrangement. Grade or P/NP. Prerequisite: Course Completion of KINES 62A. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course will provide the student with the opportunity to learn and apply the principles and protocols of sports medicine and athletic training in a supervised clinical setting. This course continues the sports medicine student experience with the addition of basic practical application of sports medicine and athletic training skills. This course will help the student prepare for a variety of professions within sports medicine and kinesiology and prepares pre-athletic training students for success in Commission on Accreditation of Athletic Training Education (CAATE) accredited athletic training programs.

KINES 62C SPORTS MEDICINE EXPERIENCE C

2 Units/6 hours by arrangement. Grade or P/NP. Prerequisite: Course Completion of KINES 62B. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course will provide the student with the opportunity to learn and apply the principles and protocols of sports medicine and athletic training in a supervised clinical setting. This course continues the sports medicine student experience with the addition of intermediate level practical application of sports medicine and athletic training skills. The practical experience gained in this course will help the student prepare for a variety of professions within sports medicine and kinesiology and prepares students for success in Commission on Accreditation of Athletic Training Education (CAATE) accredited athletic training programs.

KINES 62D SPORTS MEDICINE EXPERIENCE D

2 Units/6 hours by arrangement. Grade or P/NP. Prerequisite: Course Completion of KINES 62C. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course will provide the student with the opportunity to learn and apply the principles and protocols of sports medicine and athletic training in a supervised clinical setting. The D level of this course continues the sports medicine student experience with the addition of advanced level practical application of sports medicine and athletic training skills. The practical experience gained in this course will help the student prepare for a variety of professions within sports medicine and kinesiology and prepares pre-athletic training students for success in Commission on Accreditation of Athletic Training Education (CAATE) accredited athletic training programs.

KINES 63 SPORTS MEDICINE: LOWER BODY INJURIES

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course covers the evaluation, treatment and rehabilitation of lower body injuries. This course will help the student prepare for a variety of professions within sports medicine and kinesiology.

KINES 64 SPORTS MEDICINE: UPPER BODY INJURIES

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course covers the evaluation, treatment and rehabilitation of upper body injuries. This course will help the student prepare for a variety of professions within sports medicine and kinesiology.

KINES 70 YOGA TECHNIQUES, TRAINING, AND PRACTICE I

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course covers beginning-level asanas (postures), pranayamas (breathing practices), meditation and other traditional yoga techniques. Techniques are presented through analytical training and guided practice in how to teach and practice the techniques.

KINES 71 YOGA TECHNIQUES, TRAINING, AND PRACTICE II

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of KINES 70. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course covers intermediate-level yoga asanas (postures), pranayamas (breathing practices), meditation and other traditional yoga techniques. Techniques are presented through analytical training and guided practice in how to teach and practice the techniques.

KINES 72 YOGA TEACHING METHODOLOGY

1 Unit/1 hour lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course covers yoga teaching methods and styles, effective class management, communication skills, and addresses multi-level needs and special populations within a group setting.

KINES 73 ANATOMY AND PHYSIOLOGY FOR YOGA TEACHERS

1 Unit/1 hour lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course covers principles of human anatomy, physiology and energy anatomy as they relate to yoga practices.

KINES 74 YOGA PHILOSOPHY, LIFESTYLE, AND ETHICS

1.5 Units/1.5 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course introduces students to yoga philosophies and traditional texts, the history of yoga, yoga lifestyle, yoga's relationship with Ayurveda, and ethics for yoga practitioners and teachers, such as those involving teacher–student relationships and community.

KINES 80 INTRODUCTION TO APPLIED KINESIOLOGY AND ANATOMY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course combines anatomy and kinesiology by addressing the anatomical structure and function

of the musculoskeletal system as it relates to human movement and exercise. Muscular analysis and practical application, including strengthening and flexibility exercises for each muscle, will be emphasized. Students will also study physiological and biomechanical principles.

KINES 81 INTRODUCTION TO EXERCISE PHYSIOLOGY

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course examines the human physiological responses and adaptations to the acute stress of exercise and the chronic stress of physical training.

KINES 82 EXERCISE ASSESSMENT AND PRESCRIPTION

3 Units/2.5 hours lecture, 1.5 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course will cover assessment of physical fitness components and prescription of exercise programs for sport and fitness participants.

KINES 83 TECHNIQUES OF FITNESS INSTRUCTION

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course addresses methods of instruction for individual and group exercise in various formats, utilizing a variety of training equipment. Course focuses on knowledge and skills associated with planning, implementing, leading, and managing learners and environment using safe and effective exercises for a variety of fitness levels, including special populations. Exercise guidelines, techniques, safety, liability issues, employment, client retention, and business management will also be discussed.

KINESIOLOGY TEAM SPORTS (KTEAM)

KTEAM 1.1 FOOTBALL PASSING GAME

1 Unit/2 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This football course emphasizes the passing game from both an offensive and defensive perspective. It will include a variety of offensive and defensive skills, strategies, techniques, and related football concepts.

KTEAM 2.1 TOUCH FOOTBALL

(Formerly PHYED 88) 1 Unit/2 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: Touch football with an emphasis on skills, techniques, and strategies of team play.

KTEAM 3.1 BEGINNING BASEBALL

(Formerly PHYED 86.1) 1 Unit/2 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The purpose of this course is to provide beginning instruction in the techniques, tactics and strategies

associated with competitive baseball. Special emphasis placed on drills and competitive play situation.

KTEAM 3.2 INTERMEDIATE BASEBALL

(Formerly PHYED 86.2) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KTEAM 3.1.
Transferability: CSU;UC.
Description: The purpose of this course is to provide intermediate instruction in the techniques, tactics and strategies associated with competitive baseball. Special emphasis placed on drills and competitive play situation.

KTEAM 3.3 ADVANCED BASEBALL

(Formerly PHYED 86.3) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KTEAM 3.2.
Transferability: CSU;UC.
Description: The purpose of this course is to provide advanced instruction in the techniques, tactics and strategies associated with competitive baseball. Special emphasis placed on drills, competitive play situations and intercollegiate baseball team play.

KTEAM 4 INTRODUCTION TO BASKETBALL

1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This class is for first-time basketball players and will include an introduction to basic shooting, dribbling, passing, and defensive basketball techniques.

KTEAM 4.1 BEGINNING BASKETBALL

(Formerly PHYED 87.1) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The purpose of this course is to provide beginning instruction in the techniques, tactics and strategies associated with competitive basketball. Special emphasis is placed on drills and competitive play situation.

KTEAM 4.2 INTERMEDIATE BASKETBALL

(Formerly PHYED 87.2) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KTEAM 4.1.
Transferability: CSU;UC.
Description: The purpose of this course is to provide intermediate instruction in the techniques, tactics and strategies associated with competitive basketball. Special emphasis placed on drills and competitive play situation.

KTEAM 4.3 ADVANCED BASKETBALL

(Formerly PHYED 87.3) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KTEAM 4.2.
Transferability: CSU;UC.
Description: The purpose of this course is to provide advanced instruction in the techniques, tactics and strategies associated with competitive basketball. Special emphasis placed on drills and competitive play situation.

KTEAM 5.1 SOFTBALL

(Formerly PHYED 90) 1 Unit/2 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The purpose of this course is to provide beginning instruction in the techniques, tactics and strategies associated with competitive softball. Special emphasis is placed on drills and competitive play situation.

KTEAM 6.1 BEGINNING SOCCER

(Formerly PHYED 92.1) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: The purpose of this course is to provide beginning instruction in the techniques, tactics and strategies associated with competitive soccer. Special emphasis is placed on drills and competitive play situations.

KTEAM 6.2 INTERMEDIATE SOCCER

(Formerly PHYED 92.2) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KTEAM 6.1.
Transferability: CSU;UC.
Description: The purpose of this course is to provide intermediate instruction in the techniques, tactics and strategies associated with competitive soccer. Special emphasis placed on drills and competitive play situation.

KTEAM 6.3 ADVANCED SOCCER

(Formerly PHYED 92.3) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KTEAM 6.2.
Transferability: CSU;UC.
Description: The purpose of this course is to provide advanced instruction in the techniques, tactics and strategies associated with competitive soccer. Special emphasis placed on drills and competitive play situation.

KTEAM 7.1 INDOOR SOCCER

(Formerly PHYED 93) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This activity course is designed to teach basic indoor soccer fundamentals and rules of the game.

KTEAM 8.1 BEGINNING VOLLEYBALL

(Formerly PHYED 96.1) 1.5 Units/3 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This course will introduce students to fundamentals, team concepts, and rules of the game of volleyball. Students will participate in two-person, three-person, four-person, and six-person competition.

KTEAM 8.2 INTERMEDIATE VOLLEYBALL

(Formerly PHYED 96.2) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KTEAM 8.1.
Transferability: CSU;UC.
Description: Presentation of intermediate level volleyball skills, participation in match play, and a review of the rules of the game. Improvement of individual skills, team techniques, and game strategies will be emphasized.

KTEAM 8.3 ADVANCED VOLLEYBALL

(Formerly PHYED 96.3) 1.5 Units/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of KTEAM 8.2.
Transferability: CSU;UC.
Description: Theory and practice of advanced volleyball. Advanced techniques and tactics of tournament competition. This class will include drills, practice, and intensive review of rules and tournament play.

KTEAM 9.1 BEGINNING OUTDOOR VOLLEYBALL

(Formerly PHYED 97.1) 1 Unit/2 hours laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This activity course is designed to teach basic outdoor volleyball fundamentals and rules of the game. Practice and participation in match play and tournament play will be emphasized.

LIBRARY AND INFORMATION RESOURCES (LIR)

LIR 10 INTRODUCTION TO INFORMATION LITERACY

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Course Eligibility for ENGL 1A and Course Completion of CS 101A.
Transferability: CSU;UC.
GE: *AA/AS area I*
Description: An introductory course to learn and apply the skills needed to conduct research efficiently and effectively.

LIR 310 BASIC LIBRARY INFORMATION SKILLS

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Familiarity with computers.
Description: An introductory course to teach the basic library skills to access information sources in a variety of formats.

LIR 770 LIBRARY RESEARCH SKILLS LAB

0 Unit/10 hours by arrangement. Non-Credit Course.
Description: An open-entry/open-exit class for students who seek supplementary research instruction intended to strengthen skills and reinforce mastery of concepts taught in a referring course or courses. Instruction directly supports research learning objectives and assignments from multiple courses required in the GE and CE patterns including but not limited to AGRI 10, ANTHRO 1, ART 1.1, ART 1.2, ART 2.3, ASL 3, BIO 10, CHEM 1A, CHEM 1B, CHILD 10, COMM 1, COMM 7, COUN 10, CS 5, EMC 133B, ENGL 50, ENGL 1A, ENGL 5, ENVS 12, ESL 100, ESL 10, FDNT 10, HIST 17.1, HIST 18.1, MICRO 5, NR 75C-D, PHIL 3, PHIL 5, POLS 1, PSYCH 1A, PSYCH 1B, PSYCH 3, PSYCH 30, SOC 2, and SOC 5.
Exempt From Repeat Provisions

MACHINE TOOL TECHNOLOGY (MACH)

MACH 51A BEGINNING MACHINE TOOL TECHNOLOGY

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Introduction to theory and practices of machining processes. Includes use and care of the lathe, mill, drill press, common hand tools, and the measurement and layout of metal for producing a machine part to print specifications. Also recommended for students in related vocational areas.

MACH 51B ADVANCED MACHINE TOOL TECHNOLOGY

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of MACH 51A. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.

Description: Advanced machining processes involving the use and care of lathe, mill, drill press, and common hand tools. Measurement, layout, and tolerance application processes relevant to industrial manufacturing.

MACH 80A INTRODUCTION TO COMPUTER NUMERIC CONTROL LATHE

5 Units/4 hours lecture, 4 hours laboratory. Grade Only. Prerequisite: Course Completion of MACH 51A. Recommended: Course Completion of CS 101A.
Transferability: CSU.
Description: Introduction to theoretical and operational characteristics of the CNC (computer numerical control) lathe. Integration of computer-aided drafting (CAD), design, and programming for Computer Aided Machining (CAM) of machine parts on the CNC lathe. Applicable to entry-level computer numeric control lathe operators.

MACH 80B INTRODUCTION TO COMPUTER NUMERIC CONTROL MILL

5 Units/4 hours lecture, 4 hours laboratory. Grade Only. Prerequisite: Course Completion of MACH 80A. Recommended: Course Completion of CS 101A.
Transferability: CSU.
Description: Introduction to theoretical and operational characteristics of the CNC (computer numerical control) mill. Integration of computer-aided drafting (CAD), design, and programming for Computer Aided Machining (CAM) of machine parts on the CNC mill. Applicable to entry-level computer numerical control mill operators.

MACH 98 INDEPENDENT STUDY IN MACHINE TOOL TECHNOLOGY

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU.
Description: Special projects by arrangement to provide for independent study and enriched academic experience in Machine Tool Technology.

MACH 161 METALLURGY

(Formerly MACH 61.1) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion or Concurrent Enrollment in IED 190.
Description: Study of metals including alloying, heat treating, testing and applications in industry.

MACH 770 SUPERVISED OPEN LAB IN MACHINE TOOL

0 Unit/6 hours by arrangement. Non-Credit Course. Prerequisite: Concurrent Enrollment in MACH 51A, MACH 51B, MACH 161, MACH 80A, OR MACH 80B.
Description: A Machine Tool supervised open laboratory for students enrolled in MACH51A, MACH51B, MACH161, MACH80A, OR MACH80B.
Exempt From Repeat Provisions

MATHEMATICS (MATH)

MATH 1A CALCULUS, FIRST COURSE

5 Units/5 hours lecture. Grade Only. Prerequisite: Completion of MATH 27 or higher (MATH); OR Course Completion of MATH 25 and MATH 58; OR appropriate placement based on AB 705 mandates.
Transferability: CSU;UC.
C-ID: MATH 900S Series
GE: *AA/AS areas B,MC;CSU area B4;IGETC area 2A*
Description: Limits and continuity, differentiation, applications of the derivative, integration, applications of the integral.

MATH 1B CALCULUS, SECOND COURSE

5 Units/5 hours lecture. Grade Only. Prerequisite: Completion of MATH 1A or higher (MATH).
Transferability: CSU;UC.
C-ID: MATH 900S Series
GE: *AA/AS areas B,MC;CSU area B4;IGETC area 2A*
Description: Topics include methods of integration, conic sections, polar coordinates, infinite sequences and series, parametric equations, solid analytic geometry, and vectors.

MATH 1C CALCULUS, THIRD COURSE

4 Units/4 hours lecture. Grade Only. Prerequisite: Course Completion of MATH 1B.
Transferability: CSU;UC.
GE: *AA/AS areas B,MC*
Description: Multivariable calculus including partial differentiation and multiple integration, vector analysis including vector fields, line integrals, surface integrals, and the theorems of Green, Gauss and Stokes. (Formerly taught as MATH 2A)

MATH 2 CALCULUS, FOURTH COURSE-DIFFERENTIAL EQUATIONS

(Formerly MATH 2B) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of MATH 1C OR MATH 2A.
Transferability: CSU;UC.
C-ID: MATH 240
GE: *AA/AS areas B,MC*
Description: First and second order differential equations with applications, series solutions, numerical methods, introduction to Laplace transforms, systems of differential equations with applications.

MATH 4 DISCRETE MATHEMATICS

4 Units/4 hours lecture. Grade Only. Prerequisite: Completion of MATH 27 or higher (MATH); OR Course Completion of MATH 25 and MATH 58; OR appropriate placement based on AB 705 mandates. Recommended: Course Completion of MATH 1A.
Transferability: CSU;UC.
GE: *AA/AS areas B,MC;CSU area B4;IGETC area 2A*
Description: A lower division discrete mathematics course including formal logic, Boolean logic and logic circuits, mathematical induction, introduction to number theory, set theory, principles of combinatorics, functions, relations, recursion, algorithm efficiency and graph theory.

MATH 5 INTRODUCTION TO LINEAR ALGEBRA

3 Units/3 hours lecture. Grade Only. Prerequisite: Completion of MATH 1B or higher (MATH). Recommended: Concurrent enrollment in MATH 1C or MATH 2.
Transferability: CSU;UC.
C-ID: MATH 250
Description: An introduction to linear algebra including the theory of matrices, determinants, vector spaces, linear transformations, eigenvectors, eigenvalues and applications.

MATH 6 AN INTRODUCTION TO HIGHER MATHEMATICS

4 Units/4 hours lecture. Grade Only. Prerequisite: Course Completion of MATH 1B.
Transferability: CSU;UC.
Description: A lower division course introducing topics in higher mathematics including introductory set theory and formal logic, proof techniques, mathematical induction, equivalence relations, functions and cardinalities of sets as applied to number theory, calculus and modern algebra.

MATH 7 INTRODUCTION TO STEM CAREERS

1 Unit/1 hour lecture. Grade or P/NP. Prerequisite: Course Completion of BIO 10 OR CHEM 42 OR ENGR 10 OR MATH 58 OR MATH 25; OR MATH 27 or higher (MATH). Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: This course covers the methods for development of career pathways in fields such as science, technology, engineering, and mathematics (STEM). Students will learn to use STEM related job-search tools, identify key job skills, develop a plan for acquiring those skills, and how to use science communication skills related to a particular career or area of research in which the student has an interest.

MATH 9 FINITE MATHEMATICS

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of MATH 154 or MATH 155 or MATH 156 or appropriate placement based on AB 705 mandates.
Transferability: CSU;UC.
C-ID: MATH 130
GE: *AA/AS areas B,MC;CSU area B4;IGETC area 2A*
Description: Sets, matrices, systems of equations and inequalities, linear programming, combinatorial techniques and probability, mathematics of finance, Markov chains, game theory.

MATH 10 NATURE OF MATHEMATICS

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of MATH 161 or MATH 154 or MATH 156 or MATH 155 or appropriate placement based on AB 705 mandates.
Transferability: CSU;UC.
GE: *AA/AS areas B,MC;CSU area B4;IGETC area 2A*
Description: A survey course in mathematical concepts and mathematics in culture. Topics to include mathematical reasoning and four additional topics selected from number theory, probability, statistics, mathematical modeling, contemporary applications, geometry, and the history of mathematics. Recommended for liberal arts students.

MATH 15 ELEMENTARY STATISTICS

4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Completion of MATH 161 OR MATH 156 OR MATH 154 OR MATH 155 or appropriate placement based on AB 705 mandates.
Transferability: CSU;UC.
C-ID: MATH 110
GE: *AA/AS areas B,MC;CSU area B4;IGETC area 2A*
Description: Exploration of concepts in statistics, descriptive statistics, probability theory, Central Limit Theorem, estimation of population parameters from a sample, hypothesis testing, correlation and linear regression, introduction to analysis of variance, and computer simulations.

MATH 16 INTRODUCTION TO MATHEMATICAL ANALYSIS

4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Completion of MATH 154 or MATH 156 or MATH 155 or appropriate placement based on AB 705 mandates.
Transferability: CSU;UC.
C-ID: MATH 140
GE: *AA/AS areas B,MC;CSU area B4;IGETC area 2A*
Description: Presents techniques of calculus with emphasis placed on the application of these concepts to business and management related problems. The applications of derivatives and integrals of functions including polynomials, rational, exponential and logarithmic functions are studied.

MATH 25 PRECALCULUS ALGEBRA

3 Units/3 hours lecture. Grade Only. Prerequisite: Completion of MATH 156 or MATH 154 or MATH 155 or appropriate placement based on AB 705 mandates.
Transferability: CSU;UC.
GE: *AA/AS areas B,MC;CSU area B4;IGETC area 2A*
Description: College algebra topics, including equations, expressions, functions, inverse functions, and graphs. Also includes parametric equations, complex numbers, sequences and series.

MATH 27 PRECALCULUS ALGEBRA AND TRIGONOMETRY

5 Units/5 hours lecture. Grade Only. Prerequisite: Completion of MATH 156 OR MATH 154 OR MATH 155 or appropriate placement based on AB 705 mandates.
Transferability: CSU;UC.
GE: *AA/AS areas B,MC;CSU area B4;IGETC area 2A*
Description: College algebra and trigonometry topics, including equations, expressions, functions, inverse functions, and graphs. Also includes polar coordinates, parametric equations, complex numbers, vectors, sequences and series.

MATH 49 INDEPENDENT STUDY IN MATHEMATICS

1-3 Units/Up to 9 hours by arrangement. Grade Only. Prerequisite: Course Completion of MATH 154 or Course Completion of MATH 155 or higher; OR appropriate placement based on AB 705 mandates. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Seminars or individual conferences by arrangement to provide for independent study and enriched academic experience in Math. UC determines credit AFTER transfer; not counted for admission. (See a counselor for details.)

MATH 58 PRECALCULUS TRIGONOMETRY

3 Units/3 hours lecture. Grade Only. Prerequisite: Completion of MATH 156 or MATH 154 or MATH 155 or appropriate placement based on AB 705 mandates.
Transferability: CSU.
GE: *AA/AS areas B,MC;CSU area B4*
Description: Trigonometry topics, including trigonometric identities, equations, functions, inverse functions, and graphs, polar coordinates, parametric equations, complex numbers, vectors and applications.

MATH 101 MATHEMATICS FOR THE ASSOCIATE DEGREE

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of Math 150B, or Math 151 or higher; or appropriate placement based on AB 705 mandates. See Student Success & Assessment Services for more information about guided and self-guided placement and placement using high school transcripts or self-reported high school transcript information.
GE: *AA/AS areas B,MC*
Description: Four mathematics topics will be selected from functions, financial math, geometry, linear programming, probability and statistics, reasoning, and trigonometry. This course fulfills the mathematics competency requirement for an associate degree from SRJC. It is not recommended for students intending to transfer.

MATH 150 ELEMENTARY ALGEBRA

4 Units/4 hours lecture. Grade Only. Prerequisite: CSKLS 373 or CSKLS 372 or appropriate placement based on AB 705 mandates.
Description: Beginning algebra topics, including equations and inequalities in one variable, integer exponents, polynomials, equations and inequalities in two variables, rational expressions, radicals and rational exponents, and quadratic equations.

MATH 150A ELEMENTARY ALGEBRA 1

3 Units/3 hours lecture. Grade Only. Prerequisite: Completion of CSKLS 372 or higher (VE) or Course Completion of DRD 382.
Description: The first half of a beginning algebra course, including equations and inequalities in one variable, integer exponents, polynomials, and equations and inequalities in two variables. The combination of MATH 150A and MATH 150B is equivalent to MATH 151. Not open to those who have taken MATH 151 with a grade of "C" or better.

MATH 150B ELEMENTARY ALGEBRA 2

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of MATH 150A.
Description: The second half of a beginning algebra course, including systems of equations, rational expressions, radicals and rational exponents, quadratic equations, and the graphs of parabolas. The combination of MATH 150A and MATH 150B is equivalent to MATH 151. Not open to those who have taken MATH 151 with a grade of "C" or better.

MATH 151 ELEMENTARY ALGEBRA

5 Units/5 hours lecture. Grade Only. Prerequisite: Course Completion of CSKLS 372 or higher (VE) OR Course Completion of DRD 382.
Description: This course is a beginning algebra course, including equations and inequalities in one variable, integer

exponents, polynomials, equations and inequalities in two variables, rational expressions, radicals and rational exponents, quadratic equations, and the graphs of parabolas. Not open to those who have taken MATH 150B with a grade of "C" or better.

MATH 154 ELEMENTARY AND INTERMEDIATE ALGEBRA FOR BUSINESS AND STEM

8 Units/8 hours lecture. Grade or P/NP. Prerequisite: Completion of CSKLS 373 or CSKLS 372 or appropriate placement based on AB 705 mandates.
GE: *AA/AS areas B,MC*
Description: A combined elementary and intermediate algebra course that incorporates the use of graphing technology. Topics include functions, equations and inequalities in one variable, systems of linear equations in two and three variables, exponential and logarithmic functions and equations, and conic sections.

MATH 155 INTERMEDIATE ALGEBRA

4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Completion of MATH 150B or 151 or appropriate placement based on AB 705 mandates..
GE: *AA/AS areas B,MC*
Description: An intermediate algebra course which incorporates the use of technology. Topics include functions, equations and inequalities in one variable, systems of linear equations in two or three variables, exponential and logarithmic functions and equations, and discrete topics. Graphing calculators and/or computer algebra systems will be incorporated as appropriate.

MATH 156 INTERMEDIATE ALGEBRA FOR BUSINESS AND STEM MAJORS

5 Units/5 hours lecture. Grade or P/NP. Prerequisite: Completion of MATH 150 or MATH 150B or MATH 151 or appropriate placement based on AB 705 mandates.
GE: *AA/AS areas B,MC*
Description: An intermediate algebra course that incorporates the use of graphing technology. Topics include functions and their graphs, equations and inequalities in one variable, systems of equations in two and three variables, exponential and logarithmic functions and equations, and conic sections.

MATH 161 MATHEMATICS PREPARATION FOR STATISTICS AND LIBERAL ARTS

4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Completion of MATH 150 or MATH 151 or MATH 150B or appropriate placement based on AB 705 mandates.
GE: *AA/AS areas B,MC*
Description: Survey of fundamental algebra topics, probability and exploratory data analysis needed to prepare students for transfer-level statistics and liberal arts mathematics courses. Advisory: This course is NOT intended for math, science, computer science, business, or engineering majors.

MATH 215 ELEMENTARY STATISTICS CONCURRENT SUPPORT

2 Units/2 hours lecture. P/NP Only. Prerequisite: Concurrent Enrollment in MATH 15.
Description: A review of the core prerequisite skills, competencies, and concepts needed in statistics. Intended for students who are concurrently enrolled in (MATH 15) Elementary Statistics. Topics include concepts from

arithmetic, pre-algebra, elementary and intermediate algebra, and descriptive statistics that are needed to understand the basics of college-level statistics. Additional emphasis is placed on solving and graphing linear equations and modeling with linear functions.

MATH 770 SUPPLEMENTAL INSTRUCTION: MATH AND SCIENCE

0 Unit/10 hours by arrangement. Non-Credit Course.
Description: An open-entry, open-exit class for students who seek, through supplemental instruction and use of computers, to strengthen and reinforce mastery of skills developed in a referring course(s) including the following: Math 1A through Math 155, Physics 1 through Physics 43, Chemistry 1A through Chemistry 310, Engineering 6 through Engineering 45.
Exempt From Repeat Provisions

MEDIA STUDIES (MEDIA)

MEDIA 4 INTRODUCTION TO MASS COMMUNICATION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A.
Transferability: CSU;UC.
C-ID: JOUR 100
GE: *AA/AS area E;CSU area C1;IGETC area 3A*
Description: Overview of the history, structure, function and influence of print, electronic, and digital media and their support industries.

MEDIA 10 FILM APPRECIATION

4 Units/4 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C1;IGETC area 3A*
Description: An introduction to the language and technology of filmmaking through the examination of great films and filmmakers. The course features a broad range of domestic and international cinema and investigates the culture, politics, and social histories of the periods in which the films were produced. The students become more aware of the complexity of film art, more sensitive to its nuances, textures, and rhythms, and more perceptive in reading its multilayered blend of image, sound, and motion.

MEDIA 14 EARLY FILM HISTORY

4 Units/4 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of MEDIA 10.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C1;IGETC area 3A*
Description: A survey of international film history from pre-cinema machines to the 1950s with emphasis upon D.W. Griffith, German Expressionism, Soviet Montage, film genres, and the Hollywood Studio System. The course will also cover the historical evolution of the narrative form, as well as the development of formal devices such as the shot, mise-en-scène, editing, and sound design.

MEDIA 15 MODERN FILM HISTORY

4 Units/4 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of MEDIA 10 and MEDIA 14.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C1;IGETC area 3A*
Description: A survey of international film history from the 1950s to the present with emphasis on the New Waves and the New Hollywood. The course will also cover the historical evolution of the narrative form, as well as development of formal devices such as shot, mise-en-scene, editing, and sound design.

MEDIA 19 MULTI-CAMERA STUDIO PRODUCTION

4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Course Completion or Concurrent Enrollment in MEDIA 20.
Transferability: CSU;UC.
Description: This course introduces students to the studio production environment. Live multi-camera formats will be studied in theory and in practice as participants create original content.

MEDIA 20 INTRODUCTION TO DIGITAL FILMMAKING

4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Course Completion of CS 74.21A and MEDIA 10.
Transferability: CSU;UC.
Description: An intensive introduction to the fundamentals of digital filmmaking, including writing and structuring a story concept, developing a shooting script, basic camera and lighting techniques, editing, and post-production processes. Students will develop the basic skills to work as a member of a production crew.

MEDIA 21 INTERMEDIATE DIGITAL FILMMAKING

4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of MEDIA 20. Recommended: Course Completion of CS 74.21C.
Transferability: CSU;UC.
Description: An examination of the science and art of digital pre-production, production, and post-production. Students will write short film scripts, plan and execute shoots using single camera production techniques, edit picture and sound, and learn how to package and market films for festivals and distribution. Students will develop more advanced skills in digital filmmaking as well as the ability to lead a production crew.

MEDIA 22 SCREENWRITING

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of ENGL 100 or ESL 100 or higher (V8); or appropriate placement based on AB705 mandates. Recommended: Course Completion of MEDIA 10.
Transferability: CSU;UC.
Description: An introduction to the fundamentals of screenwriting, including story structure, character development, dialogue, plotting, and formatting as they are used in creating scripts for film and television.

MEDIA 123 INTERMEDIATE SCREENWRITING

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of MEDIA 22.
Description: An intermediate screenwriting course that focuses on longer form writing, from a complete act to a full-length feature script. Emphasis will be not just on writing content (story plot, writing style, etc), but also on

marketing one's work and choosing concepts that are marketable. Students will be able to tailor the class towards their interests in terms of form (feature or television writing) and genre (drama, comedy, action, etc.).

MEDICAL ASSISTING (MA)

MA 160 INTRODUCTION TO MEDICAL OFFICE PRACTICE

(Formerly MA 60) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of HLC 160 and of LIR 10. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.
Description: This course addresses the multiple functions performed by the Medical Assistant: appointment scheduling; communication skills and record management, including confidentiality. Focus is on professionalism in the development of organizational, decision-making and computer skills.

MA 161 LAW AND ETHICS FOR MEDICAL ASSISTANTS

(Formerly MA 61) 1 Unit/1 hour lecture, 1 hour laboratory. Grade Only. Prerequisite: Course Completion of HLC 160 and of LIR 10. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.
Description: Survey of medical law and ethics related to work in medical settings. Emphasis on implications and decision making for patients, providers, medical assistants, and other health professionals. Special attention is given to patient privacy laws. Assignments and discussions will allow students to examine their own personal and cultural values and decision making processes and compare those to the value systems, laws, and decision making processes described in the text.

MA 162 DISEASE PROCESSES

(Formerly MA 62) 4 Units/4 hours lecture. Grade Only. Prerequisite: Course Completion of HLC 160 and LIR 10. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.
Description: Emphasis on diseases of body systems and terminology of medical specialties with development, analysis, interpretation and application of advanced medical terminology used in a variety of medical settings. This includes advanced terminology related to body systems and medical specialties and associated with anatomic terms, pathophysiology, diagnoses, symptoms, conditions, medical and surgical procedures, clinical and diagnostic laboratory, and medications.

MA 163 BEGINNING CLINICAL SKILLS FOR MEDICAL ASSISTING

(Formerly MA 163A) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of ANAT 58; OR ANAT 140 AND HLC 140; AND Course Completion of MA 160, MA 161, MA 162, MA 168; AND Concurrent Enrollment in MA 163L, MA 165, MA 169. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.
Description: Course focuses on beginning clinical medical assisting skills and responsibilities for the clinical area of a medical office or other appropriate medical facility. Covers proper handwashing; use of personal protective equipment; medical and surgical aseptic procedures; vital signs determination; assisting with physical examinations/rooming, including safe transfers, positioning and draping, height, weight, obtaining patient history; disinfection and sterilization techniques; assisting with minor office procedures; application of physical agents to promote tissue healing; patient teaching on ambulatory aids and cast care.

MA 163L BEGINNING EXTERNSHIP

(Formerly MA 163AL) 1.5 Units/5.25 hours by arrangement. Grade Only. Prerequisite: Course Completion of ANAT 58; OR ANAT 140 AND HLC 140; AND Course Completion of MA 160, MA 161, MA 162, MA 168; AND Concurrent Enrollment in MA 163, MA 165, MA 169. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates. Limits on enrollment: The healthcare facilities in which students are placed require that the students must comply with all of the following before they are allowed onsite: Currency on all immunizations including annual flu shots; currency on annual tuberculosis clearance; a negative background check, a negative urine drug screen, and possess a current American Heart Association Certified Healthcare Provider CPR card.

Description: Beginning practical experience at the novice level in outpatient clinics or other medical facilities to develop entry level administrative and clinical medical assisting skills related to fundamental principles and techniques learned in theory and skills courses. This course is the first of two semesters in which the student attends the externship.

MA 164 THEORIES OF THE CLINICAL LABORATORY

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of MA 163, MA 163L, MA 165, MA 169; AND Concurrent Enrollment in MA 167, MA 174, MA 176. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.

Description: Introduction to the clinical laboratory. Urinalysis, hematology, blood chemistry, serology testing, and normal ranges are studied. Students will learn about low complexity tests and how general microscopic slide testing is performed.

MA 165 PHARMACOLOGY AND ADMINISTRATION OF MEDICATIONS

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of ANAT 58; OR ANAT 140 AND HLC 140; AND Course Completion of MA 160, MA 161, MA 162, MA 168; AND Concurrent Enrollment in MA 163, MA 163L, MA 169. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.

Description: Course covers basic pharmacology, including principles of safe preparation, administration, and documentation of medications and vaccinations by oral, parenteral, and topical/transdermal routes. Students review basic math calculations and conversions for preparation and administration of medication and vaccinations. Medications are identified by their clinical use, mechanism of action, side effects, and adverse reactions. Risk factors for drug and alcohol abuse are presented, along with drug addiction and withdrawal symptoms.

MA 166.1 EXTERNSHIP: MEDICAL ASSISTING

(Formerly MA 66.1) 3.5 Units/10.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of MA 161, MA 162, MA 167B, MA 168 and MA 169. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: The healthcare facilities in which students are placed require that the students must comply with all of the following before they are allowed onsite: Currency on all immunizations including annual flu shots; currency on annual tuberculosis clearance; a negative background check including fingerprinting, a negative urine drug screen, and possess a current American Heart Association Certified Healthcare Provider CPR card.

Description: Practical experience in medical offices, clinics, and hospitals to develop office and interpersonal skills in preparation for entry-level employment as administrative medical assistants. Emphasis is on the ability to function in a medical setting, identify priorities and organize specific tasks necessary for office efficiency.

MA 167 BASIC DIAGNOSTIC CODING

(Formerly MA 167A) 1.5 Units/1.25 hours lecture, 1 hour laboratory. Grade or P/NP. Prerequisite: Course Completion of MA 163, MA 163L, MA 165, MA 169; AND Concurrent Enrollment in MA 164, MA 174, MA 176. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.
Description: Introduction to basic International Classification of Diseases, 10th Edition, Clinical Modification (ICD-10-CM) coding. Students will utilize their knowledge of medical terminology, disease process, and human anatomy and physiology to convert diagnostic statements into alpha-numerical codes. As each body system is studied, basic coding guidelines and logic will be presented as alpha-numeric diagnoses.

MA 168 BASIC MEDICAL OFFICE INSURANCE BILLING

(Formerly MA 68.1) 1.5 Units/1.5 hours lecture. Grade Only. Prerequisite: Course Completion of HLC 160 and LIR 10. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.
Description: The student will develop basic knowledge and skills for understanding major health insurance plans as related to medical office billing.

MA 169 PROCEDURAL CODING

(Formerly MA 68.4) 1.5 Units/1 hour lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of ANAT 58; OR ANAT 140 AND HLC 140; AND Course Completion of MA 160, MA 161, MA 162, MA 168; AND Concurrent Enrollment in MA 163, MA 163L, MA 165. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.
Description: This course is an introduction to the Current Procedural Terminology (CPT) medical coding system. Students will learn about human anatomy, physiology, and disease processes, to correctly identify and code services and procedures that are provided in a variety of health care settings. Students will assign codes to services and procedures according to coding guidelines to allow for accurate statistics, claims processing, and reimbursement.

MA 171 ELECTRONIC HEALTH RECORDS IN THE MEDICAL OFFICE SETTING

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of MA 160. Recommended: Eligibility for ENGL 1A or equivalent.
Description: Structural components of the interactive Electronic Health Record (EHR) and how it supports communication and continuity of care. Perspectives on how the EHR impacts work and workflow. Practical hands-on experience utilizing an educational version of an EHR to manage patient visit information, such as examination/assessment notes and treatment plans. Perform basic functions of practice management facilitating everyday financial operations in a medical practice.

MA 174 INTERMEDIATE CLINICAL SKILLS FOR MEDICAL ASSISTING

(Formerly MA 163B) 4 Units/2 hours lecture, 6 hours laboratory. Grade Only. Prerequisite: Course Completion of MA 163, MA 163L, MA 165, MA 169; AND Concurrent Enrollment in MA 164, MA 167, MA 176. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.
Description: Course focuses on intermediate medical assisting skills and responsibilities for the clinical area of a medical office or other appropriate medical facility. Covers general medical office procedures including, but not limited to eye and ear assessment and procedures such as visual and auditory acuity testing; gynecological and prenatal care; pediatric examination; cardiopulmonary assessment and procedures including electrocardiograms (EKGs) and oxygen therapy; radiologic and diagnostic imaging; medical office emergencies; and medication administration.

MA 176 INTERMEDIATE EXTERNSHIP

(Formerly MA 166.4) 2 Units/7 hours by arrangement. Grade Only. Prerequisite: Course Completion of MA 163, MA 163L, MA 165, MA 169; AND Concurrent Enrollment in MA 164, MA 167, MA 174. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates. Limits on enrollment: The healthcare facilities in which students are placed require that the students must comply with all of the following before they are allowed onsite: Currency on all immunizations including annual flu shots; currency on annual tuberculosis clearance; a negative background check, a negative urine drug screen, and possess a current American Heart Association Certified Healthcare Provider CPR card. Recency requirement: Students must have successfully completed MA 163L Beginning Externship within 6 months of enrolling in MA 176.

Description: Intermediate practical experience in outpatient clinics or other medical facilities to further develop entry level administrative and clinical medical assisting skills related to fundamental principles and techniques learned in theory and skills courses. Ability to function with accuracy, speed and organization is emphasized. This course is the second of two semesters in which the student attends the externship.

METEOROLOGY (METRO)

METRO 10 INTRODUCTION TO WEATHER AND CLIMATE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.

Transferability: CSU;UC.

GE: *AA/AS area C;CSU area B1;IGETC area 5A*

Description: A descriptive introduction to the science of the atmosphere. Topics include Earth/Sun relationships, temperature, atmospheric pressure and wind, clouds and precipitation, storm fronts, hurricanes and tornadoes, weather forecasting, climate patterns and climate change, and atmospheric optics. California weather patterns and climate will be emphasized.

METRO 10L WEATHER AND CLIMATE LAB

1 Unit/3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in METRO 10.

Transferability: CSU;UC.

GE: *CSU area B3;IGETC area 5C*

Description: Hands-on lab activities exploring weather and climate phenomena. This class is the lab component for Introduction to Weather and Climate (METRO 10). Emphasis is placed on analysis and interpretation of weather reports, forecasts, surface weather maps, upper level air charts, satellite and radar imagery, and other remotely sensed data. Climate classification and climate data will also be included.

MICROBIOLOGY (MICRO)

MICRO 5 GENERAL MICROBIOLOGY

5 Units/3 hours lecture, 6 hours laboratory. Grade Only. Prerequisite: Course completion of ENGL 1A; AND Completion of BIO 10 or higher (V7); AND Completion of CHEM 60 OR completion of CHEM 1A or higher (V6).
Transferability: CSU;UC.
GE: *AA/AS area C;CSU areas B2,B3;IGETC areas 5B,5C*
Description: Course covers the morphology, growth, metabolism, genetics, and control of microorganisms, with emphasis on bacteria and viruses. Includes principles of microbial pathogenicity, and the human immune response. Emphasis on laboratory techniques. Intended for allied health majors considering transfer to CSU or UC.

MICRO 60 FUNDAMENTALS OF MICROBIOLOGY

4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course completion of BIO 10 or higher (V7); AND Completion of CHEM 60 OR completion of CHEM 1A or higher (V6). Recommended: Course Completion of ENGL 1A.
Transferability: CSU.
GE: *AA/AS area C;CSU areas B2,B3*
Description: Survey of the major concepts of microbiology with emphasis on those related to infectious disease. Basic techniques for cultivation and identification of microorganisms.

MUSIC (MUSC)

MUSC 1 MUSIC FUNDAMENTALS

(Formerly MUS 1) 3 Units/3 hours lecture. Grade Only.
Transferability: CSU;UC.
C-ID: MUS 110
Description: The course is designed for students with little or no formal training in music, or prospective Music majors who lack the music reading skills for MUSC 2A/3A. Students are introduced to basic musical concepts, terminology, and music reading. Topics include rhythm, scales, intervals, chords, key signatures, and the circle of fifths. Exercises in rhythm and singing, and on the piano keyboard.

MUSC 2A MUSIC THEORY 1

(Formerly MUS 2A) 3 Units/3 hours lecture. Grade Only. Recommended: Concurrent Enrollment in MUSC 3A and MUSCP 11A; OR Concurrent Enrollment in MUSC 3A and another appropriate piano course; AND Course Eligibility for ENGL 100 or ENGL 102 or ESL 100.
Transferability: CSU;UC.
C-ID: MUS 120
Description: An introductory course in music theory designed for Music majors. Topics include music notation and terminology, basic properties of sound, rhythm and meter, scales and modes, key signatures and the Circle of Fifths, intervals, transposition, chords and chord progressions, figured bass, Roman numeral analysis, phrases and cadences, and basic song structure.

MUSC 2B MUSIC THEORY 2

(Formerly MUS 2B) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of MUSC 2A. Recommended: Concurrent enrollment in MUSC 3B and MUSCP 11B OR Concurrent Enrollment in another appropriate piano course.
Transferability: CSU;UC.

C-ID: MUS 130
Description: A study of common-practice diatonic harmony and part writing. Topics include: progressions with triads and dominant seventh chords, an introduction to species counterpoint, principles of four-part SATB (soprano/alto/tenor/bass) arranging, non-harmonic tones, melody writing, bass line construction, the use of Finale notation software, and a historical survey of the development of harmony and texture in Western music.

MUSC 2C MUSIC THEORY 3

(Formerly MUS 2C) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of MUSC 2B. Recommended: Concurrent enrollment in MUSC 3C and MUSCP 11C or another appropriate piano course.
Transferability: CSU;UC.
C-ID: MUS 140
Description: An introduction to chromatic harmony through writing and analysis. Topics include: dominant and non-dominant seventh chords, secondary (applied) dominant and leading-tone chords, tonicization, modulation, binary and ternary forms, and an overview of larger forms.

MUSC 2D MUSIC THEORY 4

(Formerly MUS 2D) 3 Units/3 hours lecture. Grade Only. Prerequisite: Completion of MUSC 2C. Recommended: Concurrent enrollment in MUSC 3D AND concurrent enrollment in MUSCP 11D or another appropriate piano course.
Transferability: CSU;UC.
C-ID: MUS 150
Description: A study of advanced chromaticism in common-practice harmony with an introduction to Impressionist, Post-Romantic, Modern (Post-Tonal), and Postmodern musical techniques. Topics include: borrowed chords and mode mixture; chromatic mediants; Neapolitan and augmented-sixth chords; enharmonic reinterpretation and modulation; ninth, eleventh, and thirteenth chords; pandiatonicism and polytonality; set theory; 12-tone serialism; and advanced concepts of meter and rhythm.

MUSC 3A MUSICIANSHIP 1

(Formerly MUS 3A) 2 Units/2 hours lecture, 1 hour by arrangement. Grade Only. Recommended: Concurrent enrollment in MUSC 2A and MUSC 170.
Transferability: CSU;UC.
C-ID: MUS 125
Description: Application and development of the materials of Music Theory 1 through sight singing, ear training, and dictation. Topics include rhythm, major and minor scales, intervals, triads, and diatonic melodies.

MUSC 3B MUSICIANSHIP 2

(Formerly MUS 3B) 2 Units/2 hours lecture, 1 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSC 3A. Recommended: Concurrent enrollment in MUSC 2B.
Transferability: CSU;UC.
C-ID: MUS 135
Description: Application and development of the materials of Music Theory 2 through sight singing, ear training, and dictation. Topics include: rhythmic subdivision, melodies in major and minor keys (simple and compound meter), fluency in alto and tenor clefs, and 2- and 4-part dictation of diatonic chord progressions with triads and dominant seventh chords.

MUSC 3C MUSICIANSHIP 3

(Formerly MUS 3C) 2 Units/2 hours lecture, 1 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSC 3B. Recommended: Concurrent enrollment in MUSC 2C.
Transferability: CSU;UC.
C-ID: MUS 145
Description: Application and development of the materials of Music Theory 3 through sight singing, ear training, and dictation. Topics include: syncopation, non-dominant seventh chords, secondary dominant and leading-tone chords, tonicization, and modulation to closely related keys.

MUSC 3D MUSICIANSHIP 4

(Formerly MUS 3D) 2 Units/2 hours lecture, 1 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSC 3C. Recommended: Concurrent enrollment in MUSC 2D.
Transferability: CSU;UC.
C-ID: MUS 155
Description: Application and development of the materials of Music Theory 4 through sight singing, ear training, and dictation. Topics include: diatonic modes; borrowed chords and mode mixture; the Neapolitan and augmented sixth chords; modulations to distantly related keys; and other musical techniques of the Renaissance, Late Romantic era, and twentieth century.

MUSC 4A JAZZ, ROCK, AND POP THEORY 1

(Formerly MUS 4A) 3 Units/3 hours lecture. Grade Only. Recommended: Course Completion of MUSC 2A.
Transferability: CSU;UC.
Description: The study of music theory as it pertains to jazz, rock, and popular music. Topics include analysis and construction of chord progressions, analysis of rhythmic elements, transposing for wind instruments, and rhythm section writing. Students complete two arranging projects.

MUSC 4B JAZZ, ROCK, AND POP THEORY 2

(Formerly MUS 4B) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of MUSC 4A.
Transferability: CSU;UC.
Description: Continued study of music theory relative to contemporary musical styles. Emphasis is on four-part harmonization of a melodic line and its applications in small and large ensembles. Study also includes accompaniment practices and counterpoint.

MUSC 5A JAZZ IMPROVISATION 1

(Formerly MUS 5.1A) 3 Units/3 hours lecture. Grade Only. Recommended: Ability to play all major scales on a musical instrument.
Transferability: CSU;UC.
Description: This course provides instrumental students with the tools and techniques for jazz improvisation at a beginning level. Topics include scales, arpeggios, the elements of jazz harmony, the blues, and characteristic chord progressions.

MUSC 5B JAZZ IMPROVISATION 2

(Formerly MUS 5.1B) 3 Units/3 hours lecture. Grade Only. Prerequisite: Completion of MUSC 5A.
Transferability: CSU;UC.
Description: This course provides instrumental students with the tools and techniques for jazz improvisation that

enable them to progress toward an intermediate level. Analysis of harmonic and melodic materials, extensive listening, and performance exercises will assist the student in his/her development as an improvisor.

MUSC 5C JAZZ IMPROVISATION 3

3 Units/3 hours lecture. Grade Only. Prerequisite: Completion of MUSC 5B.
Transferability: CSU;UC.
Description: This course provides instrumental students with the tools and techniques for jazz improvisation at an intermediate level. Analysis of harmonic and melodic materials, extensive listening, and performance exercises will assist the student in his/her development as an improvisor.

MUSC 5D JAZZ IMPROVISATION 4

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of MUSC 5C.
Transferability: CSU;UC.
Description: This course provides instrumental students with the tools and techniques for jazz improvisation at an advanced level. Analysis of harmonic and melodic materials, extensive listening, and performance exercises will assist the student in his/her development as an improvisor.

MUSC 6.1 MUSIC HISTORY AND LITERATURE: ANTIQUITY TO 1750

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C1;IGETC area 3A*
Description: A historical survey of music in Western civilization from Antiquity (c. 500 BCE) through the Baroque era (1600-1750) through stylistic analysis of music, listening in and out of class, and assigned reading. Designed for Music majors or others with an interest in the arts and the humanities.

MUSC 6.2 MUSIC HISTORY AND LITERATURE: 1750-PRESENT

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C1;IGETC area 3A*
Description: A historical survey of music in Western civilization from the Enlightenment (c. 1750) to the present through stylistic analysis of music, listening in and out of class, and assigned reading. Designed for Music majors or others with an interest in the arts and the humanities.

MUSC 7 CLASSICAL MUSIC APPRECIATION

(Formerly MUS 7) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: MUS 100
GE: *AA/AS area E;CSU area C1;IGETC area 3A*
Description: A survey of music literature in the Western world from the Middle Ages to the present. Students will gain an understanding of music as an art form through listening and discussion of choral, orchestral, solo, opera, chamber, and electronic works. Concert attendance is required. Open to all students, but designed for non-music majors.

MUSC 8 WORLD MUSIC APPRECIATION

(Formerly MUS 7.4) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C1;IGETC area 3A*
Description: An introduction to the musics of Africa, Asia, the Americas, Europe, Oceania, the Caribbean, and the Middle East, focusing on the interconnectedness and cross-fertilization among cultures.

MUSC 9 JAZZ APPRECIATION

(Formerly MUS 9) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,G;CSU area C1;IGETC area 3A*
Description: Lecture survey of jazz focusing on an understanding of its essential musical elements, its evolution, and the cultural contributions of African Americans. Special attention is given to the study of standard jazz forms, stylistic differences, and analysis of live and recorded performances.

MUSC 15 STANDARDS REPERTOIRE FOR THE JAZZ MUSICIAN

3 Units/3 hours lecture. Grade Only. Recommended: Ability to read music and to perform competently on a musical instrument or voice.
Transferability: CSU;UC.
Description: Study and performance of compositions that are essential to the repertoire of the jazz musician. A large number of compositions are studied, in various styles from different stylistic periods. These compositions are performed in class by soloists accompanied by a rhythm section.

MUSC 18.1 DICTION AND REPERTOIRE: ITALIAN

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in MUSCP 17B; OR Course Completion or Current Enrollment in MUSCP 40.2; OR by Audition. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: Study of the literal and phonetic translation, pronunciation, and interpretation of standard operatic and art song literature in Italian.

MUSC 18.2 DICTION AND REPERTOIRE: ENGLISH

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion or Concurrent Enrollment in MUSCP 17B (or MUS 17B); OR Course Completion Completion or Concurrent Enrollment in MUSCP 40.2; OR by Audition. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: Study of the phonetic translation, pronunciation, and interpretation of standard operatic and art song literature in English.

MUSC 18.3 DICTION AND REPERTOIRE: GERMAN

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion or Concurrent Enrollment in MUSCP 17B; OR Course Completion or Concurrent Enrollment in MUSCP 40.2; OR by Audition. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: Study of the literal and phonetic translation, pronunciation, and interpretation of standard operatic and art song literature in German.

MUSC 18.4 DICTION AND REPERTOIRE: FRENCH

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion or Concurrent Enrollment in MUSCP 17B (or MUS 17B); OR Course Completion or Concurrent Enrollment in MUSCP 40.2; OR by Audition. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: Study of the literal and phonetic translation, pronunciation, and interpretation of standard operatic and art song literature in French.

MUSC 49 INDEPENDENT STUDY IN MUSIC

(Formerly MUS 49) 0.5-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair, and Supervising Administrator.
Transferability: CSU;UC.
Description: Seminars or individual conferences by arrangement to provide for independent study and enriched academic experience. UC determines credit AFTER transfer; not counted for admission. (See a counselor for details.)

MUSC 50 INTRODUCTION TO MIDI

3 Units/2 hours lecture, 2 hours laboratory, 1 hour by arrangement. Grade Only.
Transferability: CSU.
Description: An introduction to music sequencing and production with MIDI (Musical Instrument Digital Interface). Students will receive a solid technical foundation in MIDI, synthesis, and computer-based music notation, as well as hands-on experience with state-of-the-art industry software. Designed for students with an interest in composition, songwriting, digital audio, and/or multimedia.

MUSC 51A DIGITAL AUDIO 1: FUNDAMENTALS

3 Units/2 hours lecture, 2 hours laboratory, 1 hour by arrangement. Grade Only. Recommended: Course Completion or Concurrent Enrollment in MUSC 50; (Note: MUS 38 is no longer offered, but may be used in lieu of MUSC 50).
Transferability: CSU.
Description: This course covers the fundamentals of digital audio through a hands-on workshop in production and editing with a digital audio workstation (DAW). Topics include the principles of audio and digital recording, digital editing, the integration of digital audio and MIDI tracks, and digital signal processing.

MUSC 51B DIGITAL AUDIO 2: MULTIMEDIA

3 Units/2 hours lecture, 2 hours laboratory, 1 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSC 51A.
Transferability: CSU.
Description: An intermediate- to advanced-level hands-on workshop in digital audio focusing on the production of master audio tracks for multimedia applications. Topics include: audio for video and film; audio for spoken word; non-linear audio for interactive media and video gaming; podcasting and digital broadcasting; postproduction techniques; and mastering to compact disc and DVD.

MUSC 60A AUDIO RECORDING 1

3 Units/2 hours lecture, 2 hours laboratory, 1 hour by arrangement. Grade Only. Recommended: Course Completion of MUSC 50; AND completion of, or concurrent enrollment in MUSC 51A. Note: MUS 38 is no longer offered, but may be used in lieu of MUSC 50.

Transferability: CSU.
Description: This course is a comprehensive introduction to studio recording with Pro Tools. Topics include basic audio theory, the fundamentals of recording, signal flow, microphone selection and placement, mixers, patchbays, monitors, and a hands-on introduction to the Pro Tools system.

MUSC 60B AUDIO RECORDING 2

3 Units/2 hours lecture, 2 hours laboratory, 1 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSC 60A. Recommended: Course Completion or Concurrent Enrollment in MUSC 51B.
Transferability: CSU.
Description: This course covers intermediate- to advanced-level applications in studio recording with Pro Tools and an introduction to live sound and live recording. Topics include signal processing, mixing techniques, use of plug-ins, and preparation of the final mixdown. Students will learn how to operate a recording studio independently.

MUSIC PRACTICUM AND PERFORMANCE (MUSCP)

MUSCP 11A CLASS PIANO 1

2 Units/2 hours lecture, 1 hour laboratory. Grade Only. Recommended: Course Completion of MUSC 1 OR the ability to read music and some prior keyboard experience. Concurrent enrollment in MUSC 2A and MUSC 3A.
Transferability: CSU;UC.
Description: This course develops keyboard technique by emphasizing music-reading fluency, functional skills, technical facility, and performance of beginning-level piano literature. Designed for Music majors requiring piano proficiency while also providing non-majors and enrichment students an opportunity to study piano in an atmosphere of academic rigor. (The curriculum of MUSCP 11A corresponds to the materials of MUSC 2A.)

MUSCP 11B CLASS PIANO 2

2 Units/2 hours lecture, 1 hour laboratory. Grade Only. Prerequisite: Course Completion of MUSCP 11A OR MUS 10B or by department placement exam. Recommended: Concurrent enrollment in MUSC 2B and MUSC 3B.
Transferability: CSU;UC.
Description: This course develops keyboard musicianship through the study of major and minor scales, arpeggios, diatonic chord progressions, sight reading, and performance of beginning- to intermediate-level piano repertoire. Designed for Music majors requiring piano proficiency while also providing non-majors and enrichment students an opportunity to study piano in an atmosphere of academic rigor. (The curriculum of MUSCP 11B corresponds to the materials of MUSC 2B.)

MUSCP 11C CLASS PIANO 3

2 Units/2 hours lecture, 1 hour laboratory. Grade Only. Prerequisite: Course Completion of MUSCP 11B or by department placement exam. Recommended: Concurrent Enrollment in MUSC 2C and MUSC 3C.
Transferability: CSU;UC.
Description: This course continues the development of keyboard musicianship through the study of major and minor scales, arpeggios, diatonic chord progressions, harmonizing melodies, transposition, accompanying, sight

reading, and performance of intermediate-level piano repertoire. Designed for Music majors requiring piano proficiency while also providing non-majors and enrichment students an opportunity to study piano in an atmosphere of academic rigor. (The curriculum of MUSCP 11C corresponds to the materials of MUSC 2C.)

MUSCP 11D CLASS PIANO 4

2 Units/2 hours lecture, 1 hour laboratory. Grade Only. Prerequisite: Course Completion of MUSCP 11C or by department placement exam. Recommended: Concurrent Enrollment in MUSC 2D and MUSC 3D.
Transferability: CSU;UC.
Description: This course continues the systematic development of keyboard musicianship and functional harmony skills through a graded sequence of materials. The repertoire level is intermediate to early advanced, covering exemplars of keyboard literature from the Baroque to the Contemporary era. Designed for Music majors requiring piano proficiency while also providing non-majors and enrichment students an opportunity to study piano in an atmosphere of academic rigor. (The curriculum of MUSCP 11D corresponds to the materials of MUSC 2D.)

MUSCP 17A ELEMENTARY VOICE

2 Units/2 hours lecture, 1 hour laboratory. Grade Only. Recommended: Ability to read music, prior singing experience.
Transferability: CSU;UC.
Description: Students will study basic vocal techniques for the performance of standard and popular songs. Topics include tone production, breath control, diction, and interpreting music notation. Open to all students.
Total 2 Times

MUSCP 17B INTERMEDIATE VOICE

2 Units/2 hours lecture, 1 hour laboratory. Grade Only. Prerequisite: Course Completion of MUSCP 17A, OR a previous semester of MUSCP 17B, OR by Audition. Recommended: Course Completion or Concurrent Enrollment in MUSC 2A and MUSC 3A; AND Concurrent Enrollment in MUSCP 21A, B, C, or D.
Transferability: CSU;UC.
Description: This course is devoted to the study and practice of interrmediate-level vocal techniques and their practical application to the preparation and performance of standard vocal repertoire. Topics include interpretation, tone production, breath control, and diction.
Total 2 Times

MUSCP19.1A CLASSICAL GUITAR 1

2 Units/2 hours lecture, 1 hour laboratory. Grade or P/NP.
Transferability: CSU;UC.
Description: This course teaches fundamental classical guitar technique for the performance of beginning-level solo pieces, duets, and ensemble works. Reading music in the first position is emphasized. Students must provide their own acoustic guitar.

MUSCP19.1B CLASSICAL GUITAR 2

2 Units/2 hours lecture, 1 hour laboratory. Grade or P/NP. Prerequisite: Completion of MUSCP 19.1A or by audition.
Transferability: CSU;UC.
Description: This course continues the development of classical guitar technique and music reading skills through exercises, studies, solos, and ensemble playing (duets, trios, and quartets). Students will explore diverse literature from different style periods in a variety of keys.

MUSCP 21A CONCERT CHOIR 1

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The Concert Choir is a 40-60-voice mixed ensemble dedicated to the study, rehearsal, and performance of a cappella and accompanied choral literature from the Renaissance to the contemporary era. The emphasis for 21A is on the development of sight-reading and accurate vocal pitch. The Concert Choir performs at least two on-campus concerts each year and tours annually.
Total 2 Times

MUSCP 21B CONCERT CHOIR 2

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 21A. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The Concert Choir is a 40-60-voice mixed ensemble dedicated to the study, rehearsal, and performance of a cappella and accompanied choral literature from the Renaissance to the contemporary era. The emphasis for 21B is on effective management of the singing voice to achieve proper tone quality and phrasing. The Concert Choir performs at least two on-campus concerts each year and tours annually.
Total 2 Times

MUSCP 21C CONCERT CHOIR 3

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 21B. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The Concert Choir is a 40-60-voice mixed ensemble dedicated to the study, rehearsal, and performance of a cappella and accompanied choral literature from the Renaissance to the contemporary era. Students in 21C will have opportunities for solos and/or section leader positions. The Concert Choir performs at least two on-campus concerts each year and tours annually.
Total 2 Times

MUSCP 21D CONCERT CHOIR 4

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 21C. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The Concert Choir is a 40-60-voice mixed ensemble dedicated to the study, rehearsal, and performance of a cappella and accompanied choral literature from the Renaissance to the contemporary era. Students in 21D will have opportunities for vocal solos and/or to assume mentor/leadership roles within the choir. The Concert Choir performs at least two on-campus concerts each year and tours annually.
Total 2 Times

MUSCP 23A CHAMBER SINGERS 1

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180

Description: The Chamber Singers are a 16- to 32-voice mixed ensemble dedicated to the study, rehearsal, and performance of a cappella and accompanied choral literature for chamber choir. The Chamber Singers are an advanced ensemble designed for experienced singers. The emphasis for 23A is on the development of sight-reading skills to an advanced level. The Chamber Singers perform at least one major on-campus concert and several off-campus concerts each semester.
Total 2 Times

MUSCP 23B CHAMBER SINGERS 2

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 23A. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The Chamber Singers are a 16- to 32-voice mixed ensemble dedicated to the study, rehearsal, and performance of a cappella and accompanied choral literature for chamber choir. The Chamber Singers are an advanced ensemble designed for experienced singers. The emphasis for 23B is on developing each singer's vocal independence to an advanced level, and cultivating self-sufficiency in learning their individual parts. The Chamber Singers perform at least one major on-campus concert and several off-campus concerts each semester.
Total 2 Times

MUSCP 23C CHAMBER SINGERS 3

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 23B. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The Chamber Singers are a 16- to 32-voice mixed ensemble dedicated to the study, rehearsal, and performance of a cappella and accompanied choral literature for chamber choir. The Chamber Singers are an advanced ensemble designed for experienced singers. Students in 23C will have opportunities for vocal solos and/or section leader positions, as well as increased opportunities for outreach performance in smaller (pull-out) ensembles including quartets and caroling groups. The Chamber Singers perform at least one major on-campus concert and several off-campus concerts each semester.
Total 2 Times

MUSCP 23D CHAMBER SINGERS 4

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 23C. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The Chamber Singers are a 16- to 32-voice mixed ensemble dedicated to the study, rehearsal, and performance of a cappella and accompanied choral literature for chamber choir. The Chamber Singers are an advanced ensemble designed for experienced singers. Students in 23D will have increased opportunities for vocal solos, outreach performance in smaller groups, and/or to assume mentor/leadership roles within the ensemble. The Chamber Singers perform at least one major on-campus concert and several off-campus concerts each semester.
Total 2 Times

MUSCP 30A SYMPHONIC BAND 1

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: Rehearsal and performance of classical and contemporary symphonic band literature with emphasis on preparation for public performance. This course is designed for experienced musicians who demonstrate the potential to perform at college level on a wind or percussion instrument.
Total 2 Times

MUSCP 30B SYMPHONIC BAND 2

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 30A. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: Rehearsal and performance of classical and contemporary symphonic band literature with emphasis on preparation for public performance. This course is designed for experienced musicians who are able to perform at college level on a wind or percussion instrument.
Total 2 Times

MUSCP 30C SYMPHONIC BAND 3

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 30B. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: Rehearsal and performance of classical and contemporary symphonic band literature with emphasis on preparation for public performance. The emphasis on MUSCP 30C is on achieving a higher artistic standard. This course is designed for experienced musicians who are able to perform at college level on a wind or percussion instrument and have control of characteristic tone, intonation, and dynamic range.
Total 2 Times

MUSCP 30D SYMPHONIC BAND 4

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 30C.
Transferability: CSU;UC.
C-ID: MUS 180
Description: Rehearsal and performance of classical and contemporary symphonic band literature with emphasis on preparation for public performance. This course is designed for experienced musicians who are able to perform at college level on a wind or percussion instrument. MUSCP 30D is designed for the most advanced players. Students in this course have more accountability within the Symphonic Band and may be called upon to play solos and/or assist in the troubleshooting of problems specific to their instrument.
Total 2 Times

MUSCP 32A JAZZ BAND 1

2.5-4 Units/Up to 3 hours lecture, 2 hours laboratory, 1 hour by arrangement. Grade Only. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180

Description: The SRJC Jazz Bands are dedicated to the rehearsal and performance of classic and contemporary literature for large jazz ensemble. MUSCP 32A is designed for musicians who demonstrate the potential to perform at the college level. The emphasis is on the development of jazz interpretation, ensemble skills and sight-reading. The bands perform at least two major public concerts per semester, which may include an off-campus festival performance.
Total 2 Times

MUSCP 32B JAZZ BAND 2

2.5-4 Units/Up to 3 hours lecture, 2 hours laboratory, 1 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 32A. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The SRJC Jazz Bands are dedicated to the rehearsal and performance of classic and contemporary literature for large jazz ensemble. MUSCP 32B is designed for musicians who are able to perform at the college level. The emphasis is on the further development of jazz interpretation, ensemble skills, and sight-reading, particularly in musical styles outside of the swing genre. The bands perform at least two major public concerts per semester, which may include an off-campus festival performance.
Total 2 Times

MUSCP 32C JAZZ BAND 3

2.5-4 Units/Up to 3 hours lecture, 2 hours laboratory, 1 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 32B. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The SRJC Jazz Bands are dedicated to the rehearsal and performance of classic and contemporary literature for large jazz ensemble. MUSCP 32C is designed for experienced musicians who are able to perform at the college level. The emphasis is on the incorporation of stylistically and harmonically appropriate improvisation within the big band medium. The bands perform at least two major public concerts per semester, which may include an off-campus festival performance.
Total 2 Times

MUSCP 32D JAZZ BAND 4

2.5-4 Units/Up to 3 hours lecture, 2 hours laboratory, 1 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 32C. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The SRJC Jazz Bands are dedicated to the rehearsal and performance of classic and contemporary literature for large jazz ensemble. MUSCP 32D is designed for experienced musicians who are able to perform at the college level and is intended for the most advanced players. Students in this course will have more accountability within the ensemble, and may be called upon to assist in the troubleshooting of problems specific to their instrument and/or to lead sectional rehearsals. Emphasis is on the achievement of a professional-quality artistic standard. The bands perform at least two major public concerts per semester, which may include an off-campus festival performance.
Total 2 Times

MUSCP 33A ORCHESTRA 1

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The SRJC Orchestra is dedicated to the study, rehearsal, and performance of orchestral literature from the Baroque to the contemporary era. MUSCP 33A is designed for musicians who demonstrate the potential to perform at college level on an orchestral instrument. The Orchestra performs at least two concerts each semester.
Total 2 Times

MUSCP 33B ORCHESTRA 2

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 33A. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The SRJC Orchestra is dedicated to the study, rehearsal, and performance of orchestral literature from the Baroque to the contemporary era. MUSCP 33B is designed for musicians who are able to perform at the college level on an orchestral instrument. The Orchestra performs at least two concerts each semester.
Total 2 Times

MUSCP 33C ORCHESTRA 3

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 33B. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The SRJC Orchestra is dedicated to the study, rehearsal, and performance of orchestral literature from the Baroque to the contemporary era. Designed for musicians who are able to perform at the college level on an orchestral instrument with proper characteristic tone and control of dynamic range and intonation. The emphasis of MUSCP 33C is on achieving a higher artistic standard. The Orchestra performs at least two concerts each semester.
Total 2 Times

MUSCP 33D ORCHESTRA 4

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 33C. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The SRJC Orchestra is dedicated to the study, rehearsal, and performance of orchestral literature from the Baroque to the contemporary era. MUSCP 33D is designed for the most advanced players. Students in this course have more accountability within the Orchestra and may be called upon to play solos and/or assist in the troubleshooting of problems specific to their instrument. The Orchestra performs at least two concerts each semester.
Total 2 Times

MUSCP 40.1 APPLIED MUSIC (INDIVIDUAL INSTRUCTION): PIANO

2.5 Units/1 hour lecture, 5.5 hours by arrangement. Grade Only. Prerequisite: Concurrent Enrollment in MUSCP 32A OR MUSCP 32B OR MUSCP 32C OR MUSCP 32D OR MUSCP 42A OR MUSCP 42B OR MUSCP 42C OR MUSCP 42D OR MUSCP 21A OR MUSCP 21B OR MUSCP 21C OR MUSCP 21D OR MUSCP 30A OR MUSCP 30B OR MUSCP 30C OR MUSCP 30D. Recommended: Course Completion or Concurrent Enrollment in MUSC 2A OR MUSC 2C OR MUSC 2D OR MUSC 3A OR MUSC 3B OR MUSC 3C OR MUSC 3D OR MUSC 2B. Limits on enrollment: By Audition

Transferability: CSU;UC.

C-ID: MUS 160

Description: Individual studio instruction in piano for the development of performance skills. Each week students will take a 30-minute individual lesson and complete five hours of on-campus practice. Each semester students will perform at least once in a Recital Hour and play a juried performance for a faculty committee as a final exam. Designed for Music majors who are able to perform at college level.

4 Times in any Comb of Levels

MUSCP 40.2 APPLIED MUSIC (INDIVIDUAL INSTRUCTION): VOICE

2.5 Units/1 hour lecture, 5.5 hours by arrangement. Grade Only. Prerequisite: Concurrent enrollment in Diction and Repertoire (MUSC 18.1, 18.2, 18.3, or 18.4); AND either Concert Choir (MUSCP 21A, B, C, or D) OR Chamber Singers (MUSCP 23A, B, C, or D). Recommended: Completion of or Concurrent Enrollment in Music Theory (MUSC 2A, B, C, or D) AND Musicianship (MUSC 3A, B, C, or D). Limits on enrollment: By Audition

Transferability: CSU;UC.

C-ID: MUS 160

Description: Individual studio instruction in voice for the development of performance skills. Each week students will take a 30-minute individual lesson and complete five hours of on-campus practice. Each semester students will perform at least once in a Recital Hour and sing a juried performance for a faculty committee as a final exam. Designed for Music majors who are able to perform at college level.

4 Enrollments Total

MUSCP 40.3 APPLIED MUSIC (INDIVIDUAL INSTRUCTION): STRINGS

2.5 Units/1 hour lecture, 5.5 hours by arrangement. Grade Only. Prerequisite: Concurrent Enrollment in MUSCP 33A, B, C, or D; OR MUSCP 32A, B, C, or D; OR MUSCP 42A, B, C, or D. Recommended: Course Completion or Concurrent Enrollment in MUSC 2A, B, C, or D and MUSC 3A, B, C, or D. Limits on enrollment: By Audition

Transferability: CSU;UC.

C-ID: MUS 160

Description: Individual studio instruction in violin, viola, cello, or contrabass for the development of performance skills. Each week students will take a 30-minute individual lesson and complete five hours of on-campus practice. Each semester students will perform at least once in a Recital Hour and play a juried performance for a faculty committee as a final exam. Designed for Music majors who are able to perform at college level.

4 Times in any Comb of Levels

MUSCP 40.4 APPLIED MUSIC (INDIVIDUAL INSTRUCTION): WOODWIND

2.5 Units/1 hour lecture, 5.5 hours by arrangement. Grade Only. Prerequisite: Concurrent Enrollment in MUSCP 30A OR MUSCP 30B OR MUSCP 30C OR MUSCP 30D OR MUSCP 32A OR MUSCP 32B OR MUSCP 32C OR MUSCP 32D OR MUSCP 42A OR MUSCP 42B OR MUSCP 42C OR MUSCP 42D. Recommended: Concurrent Enrollment in MUSC 2A OR MUSC 2B OR MUSC 2C OR MUSC 2D OR MUSC 3A OR MUSC 3B OR MUSC 3C OR MUSC 3D. Limits on enrollment: By Audition

Transferability: CSU;UC.

C-ID: MUS 160

Description: Individual studio instruction in flute, oboe, clarinet, bassoon, or saxophone for the development of performance skills. Each week students will take a 30-minute individual lesson and complete five hours of on-campus practice. Each semester students will perform at least once in a Recital Hour and play a juried performance for a faculty committee as a final exam. Designed for Music majors who are able to perform at college level.
4 Times in any Comb of Levels

MUSCP 40.5 APPLIED MUSIC (INDIVIDUAL INSTRUCTION): BRASS

2.5 Units/1 hour lecture, 5.5 hours by arrangement. Grade Only. Prerequisite: Concurrent Enrollment in MUSCP 30A, B, C, or D; OR MUSCP 32A, B, C, or D; OR MUSCP 42A, B, C, or D. Recommended: Course Completion or Concurrent Enrollment in MUSC 2A, B, C, or D and MUSC 3A, B, C, or D. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 160
Description: Individual studio instruction in trumpet, French horn, trombone, baritone, or tuba for the development of performance skills. Each week students will take a 30-minute individual lesson and complete five hours of on-campus practice. Each semester students will perform at least once in a Recital Hour and play a juried performance for a faculty committee as a final exam. Designed for Music majors who are able to perform at college level.
4 Times in any Comb of Levels

MUSCP 40.6 APPLIED MUSIC (INDIVIDUAL INSTRUCTION): PERCUSSION

2.5 Units/1 hour lecture, 5.5 hours by arrangement. Grade Only. Prerequisite: Concurrent Enrollment in MUSCP 30A, B, C, or D; OR MUSCP 32A, B, C, or D; OR MUSCP 42A, B, C, or D. Recommended: Course Completion or Concurrent Enrollment in MUSC 2A, B, C, or D and MUSC 3A, B, C, or D. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 160
Description: Individual studio instruction in percussion for the development of performance skills. Each week students will take a 30-minute individual lesson and complete five hours of on-campus practice. Each semester, students will perform at least once in a Recital Hour and play a juried performance for a faculty committee as a final exam. Designed for Music majors who are able to perform at college level.
4 Times in any Comb of Levels

MUSCP 40.7 APPLIED MUSIC (INDIVIDUAL INSTRUCTION): GUITAR

2.5 Units/1 hour lecture, 5.5 hours by arrangement. Grade Only. Prerequisite: Concurrent Enrollment in MUSCP 21A, B, C, or D; OR MUSCP 30A, B, C, or D; OR MUSCP 32A, B, C, or D; OR MUSCP 42A, B, C, or D. Recommended: Course Completion or Concurrent Enrollment in MUSC 2A, B, C, or D and MUSC 3A, B, C, or D. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 160
Description: Individual studio instruction in guitar for the development of performance skills. Each week students will take a 30-minute individual lesson and complete five hours of on-campus practice. Each semester students will perform at least once in a Recital Hour and play a juried performance for a faculty committee as a final exam. Designed for Music majors who are able to perform at college level.
4 Times in any Comb of Levels

MUSCP 42A JAZZ COMBO ENSEMBLE 1

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Recommended: Course Completion of MUSC 5A. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The study and performance of classic and contemporary works for jazz combo. Emphasis is on the development of improvisational and performance skills. Students are divided into three combos of four to eight musicians, each focusing on 4-5 jazz compositions. The combos give 3-5 public performances per semester.
Total 2 Times

MUSCP 42B JAZZ COMBO ENSEMBLE 2

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 42A. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The study and performance of classic and contemporary works for jazz combo. Emphasis is on the development of a rhythmic and melodic vocabulary consistent with mainstream jazz practice. Students are divided into three combos of four to eight musicians each. The combos give 3-5 public performances per semester.

MUSCP 42C JAZZ COMBO ENSEMBLE 3

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 42B. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The study and performance of classic and contemporary works for jazz combo. Emphasis is on development of improvisatory fluency in the styles of Bop, Cool, and Hard Bop. Students are divided into three combos of four to eight musicians each. The combos give 3-5 public performances per semester.
Total 2 Times

MUSCP 42D JAZZ COMBO ENSEMBLE 4

2.5 Units/2 hours lecture, 1 hour laboratory, 0.5 hour by arrangement. Grade Only. Prerequisite: Course Completion of MUSCP 42C. Limits on enrollment: By Audition
Transferability: CSU;UC.
C-ID: MUS 180
Description: The study and performance of classic and contemporary works for jazz combo. Emphasis is on the understanding of chord/scale relationships and the introduction of odd and compound meters. Students are divided into three combos of four to eight musicians each. The combos give 3-5 public performances per semester.
Total 2 Times

MUSCP 81A OPERA AND RELATED FORMS IN PERFORMANCE 1

2-5 Units/Up to 15 hours by arrangement. Grade Only. Limits on enrollment: By Audition
Transferability: CSU.
Description: Preparation and presentation of a role in an opera or related work (such as Broadway opera, light opera, pocket operas, and concert presentations) in production for public performance.
4 Enrollments Total

NATURAL RESOURCES (NRM)

NRM 12 INTRODUCTION TO ENVIRONMENTAL CONSERVATION

(Formerly NRM 10) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas C,H;CSU areas B2,E*
Description: An introduction to principles and techniques for the management and protection of forests and other natural resources, with an emphasis on the sustainable use of wood, water, forage, recreation and wilderness resources. Includes an examination of contemporary issues affecting the management, preservation and long term sustainability of the nation's renewable natural resources for future generations.

NRM 51 WILDLAND TREES AND SHRUBS

3 Units/2.5 hours lecture, 2 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
GE: *AA/AS area C;CSU areas B2,B3*
Description: A study of the taxonomy, physiology, community and ecological relationships of trees and shrubs of the United States, with particular emphasis on California species. Analysis of the botanical and anatomical characteristics of these plants. Includes mandatory field trips.

NRM 60 INTRODUCTION TO OUTDOOR RECREATION

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: A study of historic, social, political, economic, and environmental factors influencing outdoor recreation at federal, state, and local levels. Survey of conflicts in natural resources land use.

NRM 63 ENVIRONMENTAL EDUCATION

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Principles and applied techniques used to explain natural and cultural resources to the park and museum visitor. Exploration and application of most current environmental education curricula.

NRM 66 WILDERNESS SKILLS

3 Units/3 hours lecture, 1 hour laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Health or Safety: Students who enroll should be able to hike/snowshoe at least 5 miles in the snow with 30-pound pack.
Transferability: CSU.
Description: Beginning principles and techniques of wilderness camping skills and leadership. Students will develop beginning skills required for planning, organizing, and conducting safe group trips in the wilderness. Course targeted for students pursuing careers in park management and outdoor recreation. Students who enroll should be able to hike/snowshoe at least 5 miles in the snow with 30-pound pack.

NRM 67 RECREATION FACILITY MANAGEMENT

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Students learn to evaluate public and private recreational facilities. Applied park practices relating to the operations of campgrounds and other types of recreational facilities. Through participation in recreational activities, students identify facilities needing repair or redesign or removal. Includes skills and procedures for designing and evaluating low impact camping, day-use facilities, and visitor centers. Recommended physical ability to walk five miles with a 25-pound pack.

NRM 70 FOREST MANAGEMENT AND ASSESSMENT

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Applied forestry as related to forest stand improvement, harvest methods, fire control, disease, damage, insects, manufacturing and management of forested lands. Quantity, and quality, and other forest resources, including water, range, wildlife, and outdoor recreation, carbon storage and fuel loading. Field trips are mandatory.

NRM 72 FOREST FIRE CONTROL AND ITS USE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Principles of fire behavior, control and prevention for natural resource managers and first responders. Also covers the prescribed use of fire in natural resource management applications (fuel reduction, invasive species control, etc).

NRM 73 INTRODUCTION TO FOREST MEASUREMENTS

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100; AND Eligibility for MATH 150A.
Transferability: CSU.
Description: Introduction to timber inventory systems, cruise designs, aerial photographic interpretation, and log scaling. Measurement of timber stand growth, quantity and quality, and other forest products including water, range, wildlife and outdoor recreation. Field trips are mandatory.

NRM 80 ENVIRONMENTAL POLICY FOR RESOURCE MANAGERS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: A study of major state and federal, environmental policies and how they affect natural resource managers. Students will examine the making and implementation of laws and regulations that help frame natural resource management decisions on the local level.

NRM 84 INTRODUCTION TO FISH AND WILDLIFE CONSERVATION

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Introduction to the study of fish and wildlife conservation management principles, techniques, and issues, including habitat management and population estimation. Students will become familiar with local and regional wildlife species, as well as develop expertise in wildlife identification and common field techniques used by wildlife managers.

NRM 86 WATERSHED RESOURCE MANAGEMENT

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Introduction to the methods and techniques used in measuring, monitoring, and assessing watershed health in North Coast streams. Topics of study include identification of the specific factors limiting ecoysystem productivity (vegetation, fish, etc) identification of the critical habitat needs (plants, macroinvertebrates, water quality, etc) and methods for assessing and monitoring watershed resources.

NRM 87 GEOGRAPHIC INFO. SYSTEMS APPLICATIONS IN NATURAL RESOURCES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Course Eligibility for GIS 40.
Transferability: CSU.
Description: An introduction to the use of Geographic Information Systems (GIS) to analyze and interpret natural resources data, and to solve common conservation problems. Includes a basic introduction to ArcView GIS, analysis of habitat loss for endangered species, evaluation of mineral development impacts, watershed analysis, assessing data quality, and environmental analysis associated with timber management.

NRM 88 WATERSHED ECOLOGY AND RESTORATION

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: An introduction to watershed restoration ecology methods, techniques, and tools used to restore and enhance watershed health.

NRM 91 RANGELAND MANAGEMENT

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Basic principles of range management as they apply to various regions and vegetative types. Relationship of range management practices to livestock production, wildlife management, forestry, hydrology and other land uses. Field trip participation required.

NRM 98 INDEPENDENT STUDY IN NATURAL RESOURCE MANAGEMENT

1-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU.
Description: Special projects by arrangement to provide for independent study and enriched academic experience in natural resource management.

NRM 99I NATURAL RESOURCES MGNT OCCUPATIONAL WORK EXPERIENCE INTERN

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an application, interview, placement and verification of employment because intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Natural Resources Occupational Work Experience Internship offers job readiness preparation; job

seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship placement; and supervised employment of students that extends to the job site classroom learning that relates to the students' educational or occupational goal in Natural Resource Management. Students eligible for internships will have declared a major, have completed courses in their major, or have acquired a high level of skill in their discipline, and are ready for on-the-job experience in a paid position. Students will acquire new knowledge, skills, and abilities to prepare for a career in the field of Natural Resource Management.
16 Units Total (WrxEx only)

NRM 103 RESTORING NATIVE HABITATS

0.5 Unit/3 hours lecture, 2 hours laboratory for 4 weeks. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Hands-on approach to restoring local habitats using native plants in the landscape. Overview of natural plant communities as models for restoration. Course includes study of dominant and typical plant constituents of major plant communities in Sonoma County, focusing on species currently used in restoration. Students will do field work at Shone Farm for other Sonoma County locations, matching plant species to local conditions for successful restoration/reforestation.

NRM 111 ORIENTATION TO ENVIRONMENTAL RESOURCE MANAGEMENT

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Orientation to principles and practices of environmental resource management in wildland areas. Each lecture is supported by a field experience. Field trips are mandatory.

NRM 131 PARK AND FOREST TRAILS MAINTENANCE AND RECONSTRUCTION

2.5 Units/2 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: An introduction to the equipment, methods, techniques, and tools used in laying out, repairing, and rebuilding park and forest trails.

NRM 132 CHAINSAW SAFE OPERATION AND CARE

(Formerly NRM 204) 0.5 Unit/0.25 hour lecture, 0.75 hour laboratory. P/NP Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: The proper operation, maintenance, and care of chainsaws.

NRM 141 INTRODUCTION TO ROCK CLIMBING AND RESCUE TECHNIQUES

1 Unit/1 hour lecture, 1 hour laboratory. Grade or P/NP.
Description: An introduction to the equipment, methods, and techniques used in contemporary outdoor rock climbing. Instruction includes all aspects of rock climbing, safety and an introduction to rescue techniques. Climbing occurs during field trips at a variety of popular beginning-level outdoor climbing locations in Sonoma County. Recommended for students pursuing a career as a Park Ranger.

NRM 142 ORIENTEERING FOR WILDERNESS USERS

1 Unit/1 hour lecture, 1 hour laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Compass orienteering, GPS (Global Positioning Systems), topographic map reading and smartphone applications for orienteering for backpackers and wilderness recreation users.

NURSING - AIDE (NRA)

NRA 150A CERTIFIED NURSE ASSISTANT

6 Units/3.25 hours lecture, 3.5 hours laboratory, 6 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course is designed to teach the Certified Nurse Assistant (CNA) students basic patient care skills, psychosocial/cultural understanding, and communication techniques necessary to help meet the needs of the patient. All aspects of care are designed to allow the student to utilize these skills in a health care facility. Students learn theory and basic patient care skills necessary for certification as a CNA. This course meets all of the CA Department of Public Health requirements for a Nursing Assistant Training and Assessment Program (NATAP).

NRA 150B HOME HEALTH AIDE

1.5 Units/1.25 hours lecture, 0.25 hour laboratory, 1 hour by arrangement. Grade Only. Prerequisite: Course Completion or Current Enrollment in NRA 150A. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Requires Certified Nurse Assistant Certification issued by the California Department of Health Services, show proof of immunization clearance, pass a physical exam, possess a valid Health Care Provider CPR and have a Live Scan fingerprinting and criminal background screening.
Description: This course is designed to teach the Home Health Aide (HHA) students basic patient care skills, psychosocial/cultural understanding, and communication techniques necessary to help meet the needs of the patient. All aspects of care are designed to allow the student to utilize these skills in an in-home care environment. Students learn theory and basic patient care skills necessary for certification as a HHA.

NURSING - RN (NR)

NR 74.1 PROFESSIONALISM, NURSING PROCESS AND THERAPY FOR VN TO ADN

1 Unit/0.75 hour lecture, 0.75 hour laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in NR 74.2 and Course Completion of ANAT 1 and PHYSIO 1 and MICRO 5 and FDNT 62 and PSYCH 1A OR Course Completion or Current Enrollment in NR 74.2 and ANAT 1 and PHYSIO 1 and MICRO 60 and FDNT 62 and PSYCH 1A. Limits on enrollment: Acceptance into Vocational Nursing to Nursing Program
Transferability: CSU.
Description: Concepts fundamental to professional nursing with an emphasis on nursing process. Emphasis on the difference between the scope of practice of the Licensed Vocational Nurse [LVN] and the Registered Nurse [RN].

Students will employ a variety of tools as they learn to use the nursing process. Concepts and skills related to intravenous [IV] therapy are included. This course prepares LVNs to join generic Associate Degree Nursing [ADN] students in upper level courses of the ADN program. This course involves both online and on-campus participation.

NR 74.2 PSYCHIATRIC NURSING FOR CAREER LADDER STUDENTS

4.5 Units/2 hours lecture, 7.5 hours by arrangement. Grade or P/NP. Prerequisite: Concurrent Enrollment in NR 74.1 and Course Completion of ANAT 1 and PHYSIO 1 and MICRO 5 and FDNT 62 and PSYCH 1A OR Concurrent Enrollment in NR 74.1 and Course Completion of ANAT 1 and PHYSIO 1 and MICRO 60 and FDNT 62 and PSYCH 1A. Limits on enrollment: Acceptance to the Vocational Nursing to Nursing Program
Transferability: CSU.
Description: Concepts and nursing practice in the care of patients with chronic illness, including psychiatric and substance abuse patients are presented. Emphasis is on meeting the needs of patients with psychiatric illnesses. Knowledge and skills acquired in lecture-discussion are applied in psychiatric clinical settings. Course is designed for Licensed Vocational Nurses [LVNs] whose prelicensure coursework did not include psychiatric nursing.

NR 75B NURSING CARE OF MEDICAL-SURGICAL AND PSYCHIATRIC CLIENTS

12 Units/6 hours lecture, 18 hours by arrangement. Grade Only. Prerequisite: Course Completion of NR 75.1A.
Transferability: CSU.
Description: Concepts and nursing practice in the care of medical/surgical patients and patients with chronic illness including psychiatric and substance abuse patients, are presented. The emphasis is on acute medical/surgical patients both inpatient and outpatient management of patients with chronic illness relevant to adolescent and adult patients. Knowledge and skills acquired in lecture-discussion and in simulation and skills laboratories are applied in medical-surgical, psychiatric and outpatient care settings.
One Repeat if Grade was D, F, NC, or NP

NR 75C NURSING CARE OF THE ACUTELY ILL, PERINATAL AND PEDIATRIC PT

12 Units/6 hours lecture, 18 hours by arrangement. Grade Only. Prerequisite: Course Completion of NR 75B OR Course Completion of NR 74.1 and NR 74.2.
Transferability: CSU.
Description: Concepts applicable to intermediate-level care of adult medical-surgical patients, with focus on Staff RN-level leadership, health care informatics, and evidence based practice. Perinatal and pediatric clients are included with a focus on the family as a whole system of care.
One Repeat if Grade was D, F, NC, or NP

NR 75D ADVANCED CARE OF ACUTELY ILL

12 Units/6 hours lecture, 18 hours by arrangement. Grade Only. Prerequisite: Course Completion of NR 75C. Limits on enrollment: Enrollment in the Associate Degree Nursing Program
Transferability: CSU.
Description: Advanced concepts related to the safe care in the acutely ill adult medical-surgical patient. These concepts are integrated to meet the complex needs of medical-surgical patient. Concepts related to professionalism, a preceptorship experience, and advanced nursing skill practice in a variety of clinical settings gives students an opportunity to make the transition from student to professional nurse.
One Repeat if Grade was D, F, NC, or NP

NR 75.1A FUNDAMENTALS OF PROFESSIONAL NURSING

12 Units/6.5 hours lecture, 16.5 hours by arrangement. Grade Only. Limits on enrollment: Admission to Program
Transferability: CSU.
Description: Concepts fundamental to professional nursing with an emphasis on the geriatric patient: nursing process, professionalism, basic physiological, psychosocial, and developmental needs and basic nursing skills are included in this course. Application of theoretical knowledge is guided by the Readiness for Practice Model. A number of teaching/learning strategies are incorporated in a variety of settings: classroom, skills laboratory and patient-care settings providing students an opportunity to use the nursing process.
One Repeat if Grade was D, F, NC, or NP

NR 98 INDEPENDENT STUDY IN NURSING

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator
Transferability: CSU.
Description: Independent study in nursing through literature research, clinical investigation, or a combination of the two.

NR 203 FUNDAMENTAL PHARMACOLOGY FOR NURSING

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of PHYSIO 1 OR PHYSIO 58. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course is designed to support the novice nursing students' understanding of drugs commonly used in institutional heath care settings. Emphasis is placed on fundamental processes that determine drugs' actions on the body. Drugs are studied in terms of the body systems they affect, their therapeutic benefits and their possible adverse effects. Mechanisms of action of groups/classifications of drugs are emphasized. Special concerns related to geriatric patients are a focus of study.

NURSING - VOCATIONAL (NRV)

NRV 51 FUNDAMENTALS AND BASICS OF VOCATIONAL NURSING

8 Units/8 hours lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in PHARM 255 and Concurrent Enrollment in NRV 51L and NRV 58A OR Course Completion of NR 255 and Concurrent Enrollment in NRV 51L and NRV 58A. Limits on enrollment: Acceptance to LVN Program via the Application Process
Transferability: CSU.
Description: This is the first in a series of theory courses which prepares students to practice vocational nursing. Orem's Self-Care Deficit Theory is used as a framework to study the bio-psycho-social-cultural-spiritual health/nursing concepts related to: nursing fundamentals, adult medical-surgical and gerontological nursing. Topics of patient teaching incorporate: basic pharmacology, medication administration, nutrition, standard nursing and medical care, for a variety of common disease states. This course compares and contrasts nursing care systems employed in health maintenance, communicable disease, acute illness, chronic illness, and rehabilitation. This course integrates the concepts of: critical thinking, nursing process, culturally congruent care, verbal and written communication, mental health, ethics and unethical conduct, and end of life care. Standards of nursing care are also a focus to meet the needs of the growing gerontological clientele.

NRV 51L FUNDAMENTALS & BASIC VOCATIONAL NURSING CLINICAL EXPERIENCE

6 Units/18 hours by arrangement. P/NP Only. Prerequisite: Concurrent Enrollment in NRV 51 and NRV 58A and Course Completion or Current Enrollment in PHARM 255 OR Concurrent Enrollment in NRV 51 and NRV 58A and Course Completion of NR 255.
Transferability: CSU.
Description: This is the first clinical course in the VN program. Fundamental principles learned in co-requisite theory and skills courses are applied in the care of adult patients in acute/sub-acute medical-surgical Alzheimer/respite day health and a variety of ancillary health care related settings. Bio-psycho-social-cultural-spiritual health/nursing concepts are explored as they apply to individually assigned patients.

NRV 52.1 INTERMEDIATE VOCATIONAL NURSING

(Formerly NRV 52A) 8 Units/8 hours lecture. Grade Only. Prerequisite: Course Completion of NRV 51 and Concurrent Enrollment in NRV 52.1L and NRV 58B and NRV 52.2 and NRV 52.2L.
Transferability: CSU.
Description: This is one of two intermediate level theory courses in the Vocational Nursing Program. The two primary foci of the course are the care of adult patients with increasingly complex problems and the care of pediatric clients and conditions related to each of the body systems. Concepts related to mental health care of adults and children and normal growth and development are integrated into the content. Pathological processes of selected disease states are explored with an emphasis on care of the perioperative patient.

NRV 52.1L INTERMEDIATE CLINICAL FOR VOCATIONAL NURSING

(Formerly NRV 52AL) 4 Units/12 hours by arrangement. P/NP Only. Prerequisite: Course Completion of NRV 51 and Concurrent Enrollment in NRV 52.1 and NRV 52.2 and NRV 52.2L and NRV 58B.
Transferability: CSU.
Description: A second semester clinical course preparing students to practice vocational nursing. Principles learned in prerequisite and corequisite theory and skills courses are applied to the care of patients in acute medical-surgical, ambulatory mental health and pediatric settings. The focus is broadened to include more aspects of patient care, such as perioperative, mental health and pediatric care. Orem's Self-Care deficit theory is the basis for applying the nursing process for the assigned medical-surgical, mental health, and pediatric clients.

NRV 52.2 MATERNAL-CHILD HEALTH VOCATIONAL NURSING

(Formerly NRV 52B) 2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of NRV 51 and Concurrent Enrollment in NRV 52.1 and NRV 52.1L and NRV 52.2L and NRV 58B.
Transferability: CSU.
Description: Basic concepts of maternal and child health nursing with an emphasis on wellness. The course focuses on normal perinatal period for mother, infant and family as a system. Deviations from norms are presented in all aspects of the perinatal period for mother and infant with common interventions and medical/nursing regimens. Normal growth and development is incorporated as well as aspects of nutrition, safety, and nursing care standards of the maternal child health client in a variety of settings.

NRV 52.2L MATERNAL-CHILD HEALTH VOCATIONAL NURSING CLINICAL

(Formerly NRV 52BL) 2 Units/6 hours by arrangement. P/NP Only. Prerequisite: Course Completion of NRV 51 and Concurrent Enrollment in NRV 52.1 and NRV 52.1L and NRV 52.2 and NRV 58B.
Transferability: CSU.

Description: A second semester maternal/child course for the Vocational Nursing Program. Application of concepts that are learned/applied in prerequisite and co-requisite theory and skills lab courses. Care of the normal and deviations from normal maternal and neonatal client, is presented. Normal growth and development in pregnancy and the newborn is incorporated. The family as a whole system of interactions for patient teaching with culturally sensitive care is applied to diverse clinical settings. Orem's Self-Care deficit theory is the basis for applying the nursing process for assigned maternal/child clients.

NRV 53 ADVANCED VOCATIONAL NURSING THEORY

8 Units/8 hours lecture. Grade Only. Prerequisite: Course Completion of NRV 52.1 and NRV 52.1L and NRV 52.2 and NRV 52.2L and NRV 58B and Concurrent Enrollment in NRV 53L and NRV 58C and Course Completion or Current Enrollment in PHARM 256.1 OR Course Completion of NRV 52.1 and NRV 52.1L and NRV 52.2 and NRV 52.2L and NRV 58B and Concurrent Enrollment in NRV 53L and NRV 58C and Course Completion of NR 256.1.
Transferability: CSU.
Description: This is the advanced level theory course in the Vocational Nursing program. Concepts learned in prerequisite theory courses are integrated in the study of nursing care for severely acute and chronically ill patients. Care of clients in hospitals, and community-based settings such as: ambulatory care, home care, and other ancillary health settings is incorporated. The team-leading, delegation, leadership and supervision role in a skilled nursing/rehabilitation and ambulatory setting is a focus. Health promotion and maintenance are emphasized. Health problems common in the geriatric client, and concepts of: critical thinking, culturally congruent care, end-of-life care and legal/ethical dilemmas arising in nursing care are explored. Community health and illness prevention are studied.

NRV 53L ADVANCED VOCATIONAL NURSING CLINICAL

6.5 Units/18.5 hours by arrangement. P/NP Only. Prerequisite: Course Completion of NRV 52.1 and NRV 52.1L and NRV 52.2 and NRV 52.2L and NRV 58B and Concurrent Enrollment in NRV 53 and NRV 58C and Course Completion or Current Enrollment in PHARM 256.1 OR Course Completion of NRV 52.1 and NRV 52.1L and NRV 52.2 and NRV 52.2L and NRV 58B and Concurrent Enrollment in NRV 53 and NRV 58C and Course Completion of NR 256.1.
Transferability: CSU.
Description: A third semester clinical course that includes a 120-hour preceptorship preparing students to practice vocational nursing at the entry level. Principles learned in prerequisite and corequisite theory and skills courses are applied to the care of patients in acute care hospitals, community based clinics, home care, and skilled nursing settings. The focus is broadened to include more aspects of patient care at an advanced level, such as medical surgical, mental health, and geriatric. Orem's Self-Care Deficit Theory is the basis for applying the nursing process for the assigned medical-surgical, mental health, and pediatric clients.

NRV 58A FUNDAMENTAL SKILLS LAB FOR VOCATIONAL NURSING

1 Unit/3 hours by arrangement. Grade or P/NP. Prerequisite: Concurrent Enrollment in NRV 51 and NRV 51L and Course Completion or Current Enrollment in PHARM 255 OR Concurrent Enrollment in NRV 51 and NRV 51L and Course Completion of NR 255.
Transferability: CSU.
Description: Demonstration and supervised practice of fundamental and medical surgical basic nursing skills for adult/geriatric and mental health clients based on scientific principles and correlated with concepts from theory. Planning and implementing basic patient care are practiced in a simulated clinical setting. Relationships between these concepts and nursing skills relevant to steps in the nursing process; assessment, planning, implementing, evaluation and documentation are practiced. Students demonstrate competent skill performance in a simulated clinical setting.

NRV 58B INTERMEDIATE VOCATIONAL NURSING SKILLS LAB

1 Unit/3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of NRV 51 and NRV 58A and NRV 51L and Concurrent Enrollment in NRV 52.1 and NRV 52.2 and NRV 52.2L and NRV 52.1L.
Transferability: CSU.
Description: Demonstration and supervised practice of intermediate vocational nursing: adult/geriatric, maternal-child, pediatric skills based on scientific principles and concepts from theory. Concepts related to mental health and growth and development will be integrated into skills. Planning and implementing intermediate adult/geriatric, maternal-child, and pediatric patient care are done in the simulated clinical setting relevant to steps in the nursing process: assessment, planning, implementing, evaluation and documentation. Students will practice and demonstrate skills in the lab setting prior to the assignment of these skills in the clinical setting.

NRV 58C ADVANCED SKILLS LAB FOR VOCATIONAL NURSING

0.5 Unit/1.5 hours laboratory. P/NP Only. Prerequisite: Course Completion of NRV 58B and NRV 52.1L and NRV 52.1 and NRV 52.2 and NRV 52.2L and Concurrent Enrollment in NRV 53 and NRV 53L and Course Completion or Current Enrollment in PHARM256.1 OR Course Completion of NRV 58B and NRV 52.1L and NRV 52.1 and NRV 52.2 and NRV 52.2L and Concurrent Enrollment in NRV 53 and NRV 53L and Course Completion of NR 256.1.
Transferability: CSU.
Description: Demonstration and supervised practice of advanced vocational nursing skills of scientific principles and concepts from co-requisite theory. Planning and implementing advanced patient care in a simulated clinical setting relevant to steps in the nursing process: assessment, planning, implementing, evaluating and documenting. Students will demonstrate competent skills prior to use in clinical settings. Course includes the reinforcement of previously learned skills. Skills used by the vocational nurse working with the adult/geriatric and mental health client in settings such as: hospitals, team leading in skilled nursing/rehabilitation, community based: ambulatory clinics, home care, and other ancillary health care settings are integrated skills such as trach care, complex wound care, ambulatory clinic and home care skills, supervision and leadership and IV (intravenous) therapy within VN (Vocational Nursing) scope are demonstrated.

OLDER ADULTS PROGRAM (OA)

OA 501 CREATIVE ARTS FOR OLDER ADULTS

(Formerly SE 501) 0 Unit/3 hours laboratory. Non-Credit Course.
Description: This course is designed to enrich the quality of life of older adults through art. A variety of media such as painting, drawing, crafts and collage encourage creativity and self-expression. Course activities promote or maintain physical, mental, social and emotional well-being and accommodate varying skill levels. This course is offered at numerous locations in Sonoma County.
Exempt From Repeat Provisions

OA 502 AUTOBIOGRAPHICAL WRITING FOR OLDER ADULTS

(Formerly SE 502) 0 Unit/3 hours laboratory. Non-Credit Course.
Description: This course is designed to teach older adults the skills necessary to write personal accounts of their life stories. A supportive learning environment allows students to read their stories and receive feedback in order

to bring interest and clarity to their life experiences. Course activities promote or maintain mental, social and emotional well-being and accommodate varying skill levels.
Exempt From Repeat Provisions

OA 505 DISCUSSION GROUP

(Formerly SE 505) 0 Unit/3 hours laboratory. Non-Credit Course.
Description: This course is designed to engage older adults in lively discussions such as consumer issues, current events, healthy aging and literature. A supportive learning community encourages expression of thoughts and feelings, deepening of understanding and openness to new ideas and divergent perspectives. The course develops effective communication skills and enhances the quality of life.
Exempt From Repeat Provisions

OA 507 FITNESS FOR OLDER ADULTS

(Formerly SE 507) 0 Unit/5 hours laboratory. Non-Credit Course.
Description: This course is designed to enrich the quality of life of older adults through exercise. Course activities promote or maintain physical, mental, social and emotional well-being and accommodate varying skill levels. A variety of activities, including strength training, stretching, brain aerobics, interactive games, and relaxation are incorporated to encourage a healthier and more active life. This course is offered at numerous locations in Sonoma County in partnership with senior service providers.
Exempt From Repeat Provisions

OA 511 QUILT MAKING - BEGINNING

0 Unit/3 hours laboratory. Non-Credit Course.
Description: This course is designed to enrich the quality of life of older adults through quilt making. This beginning course introduces the student to how to choose a design and fabrics that are complementary and pleasing. A variety of designs and fabrics are covered. Students begin making a quilt with a simply-pieced design. Course activities promote or maintain physical, mental, social and emotional well-being and accommodate a variety of skill sets. This course is offered at numerous locations in Sonoma County.
Exempt From Repeat Provisions

OA 512 QUILT MAKING - INTERMEDIATE

0 Unit/3 hours laboratory. Non-Credit Course.
Description: This course is designed to enrich the quality of life of older adults through quilt making. This course is a continuation of the beginning course and teaches the student how to choose more elaborate designs and different fabrics. A variety of intermediate level designs, patterns, and fabrics are covered. Course activities continue to promote physical, mental, social and emotional well-being and accommodate a variety of skill sets. This course is offered at numerous locations.
Exempt From Repeat Provisions

OA 513 QUILT MAKING - ADVANCED

0 Unit/3 hours laboratory. Non-Credit Course.
Description: This course teaches the student some of the more advanced techniques and designs used in quilt making. The course activities continue to promote physical, mental, social and emotional well-being and accommodate a variety of skill sets. This course is offered at numerous locations.
Exempt From Repeat Provisions

OA 514 QUILTING, PATCHWORK AND APPLIQUE

0 Unit/3 hours laboratory. Non-Credit Course.
Description: This course teaches the student about patchwork and appliques used in quilt making. The course activities continue to promote physical, mental, social and emotional well-being and accommodate a variety of skill sets. This course is offered at numerous locations.
Exempt From Repeat Provisions

OA 515 QUILTS FOR SPECIAL OCCASIONS

0 Unit/3 hours laboratory. Non-Credit Course.
Description: Students will learn about making quilts for special occasions. The course activities continue to promote physical, mental, social and emotional well-being and accommodate a variety of skill sets. This course is offered at numerous locations.
Exempt From Repeat Provisions

OA 581 MUSICAL EXPERIENCE

(Formerly SE 581) 0 Unit/1.5 hours laboratory. Non-Credit Course.
Description: This course is designed to enrich the quality of life of older adults through music. The course activities promote or maintain physical, mental, social and emotional well-being and accommodate varied skill levels. A variety of stimulating and uplifting activities are incorporated, including movement to music, remembering old favorites, group sing-along and exposure to new music. This course is offered at numerous locations throughout Sonoma County in partnership with senior service providers.
Exempt From Repeat Provisions

PARALEGAL STUDIES (PLS)

PLS 50 INTRODUCTION TO PARALEGAL STUDIES

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This is the required initial course for students in the Paralegal program. It includes an introduction to the legal field, the role of the paralegal, an overview of the legal system, ethics, a survey of procedural law, and a survey of selected substantive areas of the law including contracts, torts, property, and business.

PLS 51 LEGAL RESEARCH

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in PLS 50. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course acquaints students with procedural and substantive law; statutes, cases, codes and regulations; and how to find the law through legal encyclopedias, digests, and other resource materials. Citation format, basic case analysis, and Shepardizing are emphasized. Once experience is developed in locating information, students analyze material, brief cases, and prepare research memoranda. Assignments and activities require extensive law library time.

PLS 52 LEGAL WRITING

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in PLS 50, PLS 51 and BGN 71.
Transferability: CSU.
Description: Students use legal research skills to draft legal correspondence, case briefs, legal memoranda, pleadings, motions, and other documents. The course emphasizes construction of clear, concise, and well-organized legal instruments.

PLS 53 CIVIL PROCEDURE: PLEADINGS

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of PLS 50 and PLS 51. Recommended: Course Completion of BGN 71.
Transferability: CSU.
Description: An in-depth examination of all phases of civil procedure, from the initial stages of planning and preparing the civil lawsuit to the trial, is presented in this course. Students draft typical pleadings, including complaints, motions, demurrers, answers and cross-complaints from factual situations presented in class. Common means of terminating a suit without trial, such as summary judgments, defaults, dismissals and settlement are also discussed.

PLS 54 CIVIL PROCEDURE: DISCOVERY

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of PLS 51 and PLS 50.
Transferability: CSU.
Description: This course addresses pre-trial discovery and evidence considerations in civil litigation. Students learn procedures and tactics for initiating, managing, and compelling discovery and drafting major discovery documents in current use from sample problems. Evidence questions that commonly occur during trial preparation are examined.

PLS 55 LEGAL ETHICS

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion or current enrollment in PLS 50 and PLS 51.
Transferability: CSU.
Description: This course emphasizes development of ethical judgment in the context of the modern law office team. The course covers the examination of the Rules of Professional Conduct, ethical guidelines for paralegals, and their application to special problems of both civil and criminal practice. Ethical standards for direct providers of legal services are also discussed.

PLS 60 LEGAL CALENDARING

1 Unit/1 hour lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in PLS 50.
Transferability: CSU.
Description: This course provides a comprehensive overview of calendaring for the law office. State and local rules are emphasized. Risk management, statutes of limitation, guidelines and techniques for effective calendaring are also discussed. Students will resolve calendaring situations triggered by various events common in law firms.

PLS 61 INTELLECTUAL PROPERTY LAW

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion or Concurrent Enrollment in PLS 50.
Transferability: CSU.
Description: This course presents an overview of the principal types of intellectual property, such as trade secrets,

patents, copyrights, and trademarks.

PLS 62 TORTS

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of PLS 51.
Transferability: CSU.
Description: An in-depth examination of all phases of tort litigation from the initial stages of planning and preparing the civil lawsuit to trial. Elements of tort causes of action are discussed in depth. Negligence, a common element, is explained and applied to case fact patterns. Common torts such as products liability, wrongful death, invasion of privacy and defenses to torts are presented for analysis.

PLS 63 CONTRACTS

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of PLS 51.
Transferability: CSU.
Description: This course is designed to acquaint the paralegal with the formal requirements and legal principles involved in contract law and drafting documents. In addition to lectures on the underlying legal theory, students gain experience in drafting and analyzing a broad range of agreements.

PLS 64 THE AMERICAN JURY SYSTEM

1 Unit/1 hour lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion or Concurrent Enrollment in PLS 50.
Transferability: CSU.
Description: This course will provide an overview of the evolution and current functions of the adversarial system that has evolved in the U.S. as a means of settling disputes. The grand jury, the criminal petit jury, and the civil petit jury will be explored.

PLS 65 TECHNOLOGY IN THE LAW OFFICE: PRACTICE, PROCEDURES & ETHICS

3 Units/3 hours lecture. Grade Only. Prerequisite: Course completion or current enrollment in PLS 50 and PLS 51.
Transferability: CSU.
Description: This course acquaints students with the various types of legal technology used in a modern-day law office, including software and applications for word processing, spreadsheet and database creation, case management, billing and time-keeping, and trial preparation.

PLS 66 WILLS, TRUSTS AND ESTATE PLANNING

3 Units/3 hours lecture. Grade Only. Prerequisite: Course completion or current enrollment of PLS 50 and PLS 51.
Transferability: CSU.
Description: This course is designed to acquaint the paralegal with the formal requirements and legal principles involved in will, trust and estate law, including drafting techniques. In addition to lectures on the underlying legal theory, students gain experience in drafting and analyzing a broad range of succession and distribution documents.

PLS 67 FAMILY LAW

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in PLS 50 and Course Completion or Current Enrollment in PLS 51.
Transferability: CSU.
Description: This course presents fundamental common law and statutory concepts of family law with emphasis

on the paralegal's role in this area. Topics include formal and informal marriages, separation, divorce, annulment, marital property, the parent-child relationship, child custody and support, adoption, guardianship, domestic relations court procedures, public records research, and the paralegal's role in alternative dispute resolution/mediation processes. Ethical obligations, family law terminology and emerging computer applications in domestic relations practice are also presented.

PLS 99I PARALEGAL OCCUPATIONAL WORK EXPERIENCE INTERNSHIP

2-8 Units/Up to 34.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of BOT 85.1, PLS 53, PLS 55 and Course Completion or Current Enrollment in PLS 54. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an application, interview, placement and verification of employment because intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Paralegal Occupational Work Experience Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; prospective internship placement; and supervised employment of students that extends to the job site classroom learning that relates to the students' educational or occupational goal. Students eligible for internships will have declared a major, have completed courses in their major, or have acquired a high level of skill in their discipline, and are ready for on-the-job experience in a paid or unpaid position. Students will acquire new knowledge, skills, and abilities to prepare for a career in their chosen field.
16 Units Total (WrxEx only)

PHARMACY TECHNICIAN (PHARM)

PHARM 102 PHARMACEUTICAL CALCULATIONS FOR THE PHARMACY TECHNICIAN

2 Units/2 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 AND CSKLS 100.
Description: Instruction in pharmaceutic calculations designed for Pharmacy Technician students. Prepares students for success in therapeutic calculations through pharmaceutical skills development (dosage, volume, concentration) of computations with absorption rate, admixtures, medicinal compounding and applied measurement systems. Teaches students approaches in bioavailability and bioequivalence alliteration, accurately recognizing pharmaceutical units as required by the California State Board of Pharmacy.

PHARM 103 CRITICAL THINKING AND MANAGEMENT SKILLS FOR THE PT

2 Units/2 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Eligibility for CSKLS 372 or higher.
Description: Prepares students for success in the application of learned theory. The development of necessary discernment, reason, and proficiencies with regard to pharmaceutical critical thinking and solutions. Application of systems, theorems, principles, postulates, and provisions to enable the student to perform at an advanced level of pharmaceutical care and service.

PHARM 150 INTRODUCTION TO PHARMACY TECHNICIAN

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: An introduction to the role and work environment of the pharmacy technician in retail, hospital and other healthcare settings. The student will learn about legal responsibilities, technical activities and common medications used. The pharmacy technician student will also learn how to interpret common prescriptions and conduct simple pharmaceutical mathematic calculations.

PHARM 151 PHARMACEUTICAL FUNDAMENTALS

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in PHARM 150. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: An introduction to pharmacological principles as they relate to and support an understanding of the rationale behind drug prescribing and usage impacted by the United States Pharmacopeia and federal and state regulations.

PHARM 152 AMBULATORY PHARMACY PRACTICE

2 Units/1.5 hours lecture, 2.5 hours laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in PHARM 150. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: An overview of the skills needed to operate effectively in an ambulatory setting, with emphasis on receiving and controlling inventory, computerized prescription processing, medical insurance billing, and customer relations.

PHARM 153 DOSAGE CALCULATIONS

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of PHARM 102.
Description: Calculation of the correct oral and parenteral dosages of drugs using information from prescriptions or medications orders. Accurate interpretation of the correct amount of ingredients for the compounding of pharmaceutical products from a prescription or medications order.

PHARM 154A RETAIL CLINICAL 1

1 Unit/3.5 hours by arrangement. Grade Only. Prerequisite: Course Completion or Current Enrollment in PHARM 150. Limits on enrollment: The Student must pass a background check and drug screening.
Description: The practice, in outpatient environment, of pharmacy technician skills developed in didactic and laboratory training. Activities will be performed by the student and evaluated by a supervising licensed pharmacist.

PHARM 154B RETAIL CLINICAL 2

3 Units/9 hours by arrangement. Grade Only. Prerequisite: Course Completion of PHARM 151 and PHARM 154A and Course Completion or Current Enrollment in PHARM 153. Limits on enrollment: The Student must pass a background check and drug screening.
Description: The practice, in an outpatient environment, of advanced pharmacy technician skills developed in didactic and laboratory training. Activities will be performed by the student and evaluated by a supervising licensed pharmacist or pharmacy technician.

PHARM 155 PHARMACOLOGY

4 Units/4 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course introduces the Pharmacy Technician student to the historical development of the use of medicinal drugs, the basic mechanism of drug action, pharmacokinetics and basic concepts related to the

administration of pharmacologic agents. Therapeutic effects of identified groups of drugs, their side effects, interactions and potential error sites are integrated throughout the course. Focus is on selected drug classes.

PHARM 156 DISPENSING AND COMPOUNDING

2.5 Units/2 hours lecture, 2 hours laboratory. Grade Only. Prerequisite: Course Completion of PHARM 150.
Description: General preparation of topical, transdermal, rectal, ophthalmic, nasal, oral and otic pharmaceutical dosage forms. Practical experience in the manipulative and record keeping functions associated with the compounding and dispensing of prescriptions. Study of dosage forms, advantages and disadvantages, uses, storage and packing of pharmaceutical products.

PHARM 157 HOSPITAL PHARMACY PRACTICE FOR THE PHARMACY TECHNICIAN

0.5 Unit/0.5 hour lecture, 1 hour laboratory. Grade Only. Prerequisite: Course Completion of PHARM 102, PHARM 152 and PHARM 154A. Recommended: Eligibility for ENGL 1A or equivalent.
Description: This course is designed to prepare the Pharmacy Technician for employment in an inpatient hospital setting including employment as a fill technician and/or IV compounding technician.

PHARM 157L HOSPITAL PHARMACY CLINICAL EXPERIENCE

0.5 Unit/2.25 hours by arrangement. Grade Only. Prerequisite: Course Completion or Concurrent Enrollment in PHARM 157. Limits on enrollment: The student must pass a background check and drug screening and be current on immunizations.
Description: The practice in a hospital pharmacy environment of advanced pharmacy technician skills developed in didactic and laboratory training. Activities will be performed by the student and evaluated by a preceptor.

PHARM 256.1 ADVANCED PHARMACOLOGY

1 Unit/1 hour lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in PHARM 255.
Description: This advanced level course examines the basis for pharmacological treatment of more complex disease states. Drug classifications will be discussed with emphasis on pediatric and geriatric pharmacology, medication administration including: nutrition and electrolytes, immunologic agents, anti-neoplastic agents, gastrointestinal agents, and endocrine agents. Students will follow patients and aspects of their care as written in case presentations and studies.This course is intended for students in the Associate Degree in Nursing, Vocational Nursing, Psychiatric Technician, and Pharmacy Technician programs.

PHILOSOPHY (PHIL)

PHIL 3 CRITICAL THINKING

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area B;CSU area A3*
Description: Practical reasoning, argumentation and the analysis of language as useful tools for making reasonable decisions about what to do and believe.

PHIL 4 INTRODUCTION TO SYMBOLIC LOGIC

3 Units/3 hours lecture. Grade or P/NP. Recommended: Concurrent enrollment or completion of ENGL 100 or ESL 100; AND Concurrent enrollment or completion of MATH 150A..
Transferability: CSU;UC.
C-ID: PHIL 210
GE: *AA/AS area B*
Description: Development of modern symbolic logic through first-order predicate logic plus identity. Emphasis on translation and proof techniques. Provides a basis for understanding recent analytic trends.

PHIL 5 CRITICAL THINKING/WRITING

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Completion of ENGL 1A or higher (V8).
Transferability: CSU;UC.
GE: *AA/AS area B;CSU area A3;IGETC area 1B*
Description: This course covers the application of principles of critical thinking to the writing and analysis of extended, argumentative essays.

PHIL 6 INTRODUCTION TO PHILOSOPHY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: PHIL 100
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: An inquiry into truth and value through studies of the philosophers. Stresses philosophical issues, themes, and problems, as well as methods of philosophical inquiry. Examines how philosophy has tried to answer the perennial questions about reality, truth, and value. Explores philosophy's role in personal and social life.

PHIL 7 CONTEMPORARY MORAL ISSUES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: PHIL 120
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: An introduction to modern and classical moral theories and their application to selected contemporary moral issues such as euthanasia, abortion, animal rights, and privacy.

PHIL 9 POLITICAL PHILOSOPHY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,G;CSU area C2;IGETC area 3B*
Description: A philosophical examination of political concepts such as liberty, equality, rights, justice, and democracy. Typical approaches will use these concepts to address the nature of government and citizenship, then apply these concepts to contemporary issues such as civil rights, the welfare state, and civil disobedience.

PHIL 10 PHILOSOPHY OF PEACE AND NONVIOLENT ACTION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*

Description: An inquiry into peace and nonviolence through study of the philosophers and historical movements of nonviolent practice. Stresses philosophical problems or philosophical themes and issues or methods of philosophical inquiry as they pertain to the concepts and practices of peace and nonviolence.

PHIL 11 INTRODUCTION TO ASIAN PHILOSOPHY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C2;IGETC area 3B*
Description: An introductory examination of major ideas in Indian, Chinese, and Japanese philosophy. The course compares these views with basic tenets of Western philosophy, exploring perspectives on the nature of existence, human destiny, ethics, and socio-political obligation.

PHIL 12 ENVIRONMENTAL PHILOSOPHY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C2;IGETC area 3B*
Description: An exploration of philosophical views about what makes the natural environment valuable and how these philosophies apply to selected environmental issues.

PHIL 20 HISTORY OF WESTERN PHILOSOPHY: ANCIENT AND MEDIEVAL

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: PHIL 130
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: History of Western philosophy from classical Greek through the Middle Ages, concentrating on Socrates, Plato and Aristotle.

PHIL 21 HISTORY OF WESTERN PHILOSOPHY: MODERN

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: PHIL 140
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: History of Western philosophy from the late Renaissance through the Enlightenment (16th-18th Centuries).

PHIL 49 INDEPENDENT STUDY IN PHILOSOPHY

1-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Independent study program designed to expand upon previous classroom knowledge or cover material not covered in another Philosophy course. UC determines credit AFTER transfer; not counted for admission. (See a counselor for details.)

PHYSICAL SCIENCE (PHYSC)

PHYSC 21 INTRODUCTION TO EARTH SCIENCE

4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
C-ID: GEOL 121
GE: *AA/AS area C;CSU areas B1,B3;IGETC areas 5A,5C*
Description: A survey course providing an introduction to the Earth sciences, including geology, oceanography, meteorology, and astronomy. This course focuses on the interactions between various Earth systems such as plate tectonics, the hydrologic cycle, the rock cycle, weather and climate, and Earth's place in the universe. This course is primarily designed for those intending to pursue an elementary teacher education program.

PHYSICS (PHYS)

PHYS 1 INTRODUCTION TO PHYSICS PROBLEM SOLVING

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of MATH 154 OR MATH 155 OR MATH 156 OR higher (MATH) OR appropriate placement based on AB705 mandates.
Transferability: CSU;UC.
GE: *AA/AS area B;CSU area B1*
Description: An introduction to basic concepts in physics with an emphasis on the development of problem solving skills. This course helps prepare students for success in Physics 20 or Physics 40.

PHYS 7 INTRODUCTION TO STEM CAREERS

1 Unit/1 hour lecture. Grade or P/NP. Prerequisite: Course Completion of BIO 10 OR CHEM 42 OR ENGR 10 OR MATH 58 OR MATH 25; OR MATH 27 or higher (MATH). Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: This course covers the methods for development of career pathways in fields such as science, technology, engineering, and mathematics (STEM). Students will learn to use STEM related job-search tools, identify key job skills, develop a plan for acquiring those skills, and how to use science communication skills related to a particular career or area of research in which the student has an interest.

PHYS 11 CONCEPTUAL PHYSICS

4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of MATH 150 OR MATH 150B OR MATH 151 OR higher (MATH) OR appropriate placement based on AB705 mandates. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates.
Transferability: CSU;UC.
GE: *AA/AS area C;CSU areas B1,B3;IGETC areas 5A,5C*
Description: Introduction to the principles of classical and modern physics emphasizing basic concepts and topics such as mechanics, light, sound, quantum physics, electricity and magnetism, optics, and particle physics.

PHYS 20 GENERAL PHYSICS LECTURE PART I

(Formerly PHYS 2A) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Concurrent Enrollment in PHYS 20L; AND Course Completion of MATH 25 and MATH 58 OR Completion of MATH 27 or higher (MATH) OR appropriate placement based on AB705 mandates. Recommended: One year of high school physics; OR Course Completion of PHYS 1.
Transferability: CSU;UC.
C-ID: PHYS 100S Series;PHYS 105 Series
GE: *AA/AS area C;CSU area B1;IGETC area 5A*
Description: This course uses vectors and algebra to investigate translational and rotational motion, Newton's laws, conservation of momentum and energy, oscillations, mechanical waves (including sound), fluid mechanics, and thermodynamics.

PHYS 20L GENERAL PHYSICS LAB PART I

(Formerly PHYS 3A) 1 Unit/3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion or Current Enrollment in PHYS 20.
Transferability: CSU;UC.
C-ID: PHYS 100S Series;PHYS 105 Series
GE: *CSU area B3;IGETC area 5C*
Description: Laboratory experiments to accompany Physics 20.

PHYS 21 GENERAL PHYSICS LECTURE PART II

(Formerly PHYS 2B) 3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of PHYS 20 and Concurrent Enrollment in PHYS 21L.
Transferability: CSU;UC.
C-ID: PHYS 100S Series;PHYS 110 Series
GE: *AA/AS area C;CSU area B1;IGETC area 5A*
Description: This is a continuation of Phys 20. This course covers electricity and magnetism, light, and modern physics.

PHYS 21L GENERAL PHYSICS LAB PART II

(Formerly PHYS 3B) 1 Unit/3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of PHYS 20L; AND Course Completion or Current Enrollment in PHYS 21.
Transferability: CSU;UC.
C-ID: PHYS 100S Series;PHYS 110 Series
GE: *CSU area B3;IGETC area 5C*
Description: Lab experiments to accompany Physics 21.

PHYS 40 CLASSICAL MECHANICS FOR SCIENTISTS AND ENGINEERS

(Formerly PHYS 4A) 5 Units/4 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Completion of MATH 1A or higher (MATH). Recommended: One year of high school physics or PHYS 1.
Transferability: CSU;UC.
C-ID: PHYS 200S Series;PHYS 205
GE: *AA/AS area C;CSU areas B1,B3;IGETC areas 5A,5C*
Description: This course employs vectors and calculus to investigate translational and rotational motion, work and energy, conservation of energy and momentum, static equilibrium and universal gravitation. Intended for science and engineering students.

PHYS 41 WAVES, OPTICS AND THERMODYNAMICS FOR SCIENTISTS & ENGINEERS

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of PHYS 40 and MATH 1B.
Transferability: CSU;UC.
C-ID: PHYS 200S Series
GE: *AA/AS area C;CSU areas B1,B3;IGETC areas 5A,5C*
Description: This is a course intended for science and engineering students and will include oscillations, waves, sound, heat, kinetic theory, thermodynamics, geometrical optics, interference, diffraction and polarization of light.

PHYS 42 ELECTRICITY AND MAGNETISM FOR SCIENTISTS AND ENGINEERS

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Completion of PHYS 40 or higher (V5) and Course Completion or Current Enrollment in MATH 1C.
Transferability: CSU;UC.
C-ID: PHYS 200S Series;PHYS 210
GE: *AA/AS area C;CSU areas B1,B3;IGETC areas 5A,5C*
Description: This is a course intended for science and engineering students and will include electricity, magnetism and electromagnetic waves.

PHYS 43 MODERN PHYSICS FOR SCIENTISTS AND ENGINEERS

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of PHYS 41 and PHYS 42; AND Course Completion or Concurrent Enrollment in MATH 2.
Transferability: CSU;UC.
C-ID: PHYS 200S Series
GE: *CSU area B1*
Description: This is a modern physics course intended for scientists and engineers and includes special relativity, atomic theory, quantum physics, and nuclear processes.

PHYS 49 INDEPENDENT STUDY IN PHYSICS

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Independent research project in physics to provide for an enriched academic experience. UC determines credit after transfer; not counted for admission. (See a counselor for details.)

PHYSIOLOGY (PHYSIO)

PHYSIO 1 HUMAN PHYSIOLOGY

5 Units/4 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course completion of ENGL 1A; AND Completion of BIO 10 or higher (V7); AND Completion of CHEM 60 OR completion of CHEM 1A or higher (V6).
Transferability: CSU;UC.

C-ID: BIOL 120B
GE: *AA/AS area C;CSU areas B2,B3;IGETC areas 5B,5C*
Description: Study of the function of the human body with a focus on mechanisms of homeostasis at the biochemical, cellular, and systemic levels. Laboratory experiments are conducted to illustrate major principles associated with these systems. (Intended for pre-nursing and pre-dental hygiene students.)

PHYSIO 58 INTRODUCTION TO HUMAN PHYSIOLOGY

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of CHEM 60.
Transferability: CSU.
GE: *AA/AS area C*
Description: This is an introductory course in human physiology, organized around body systems and the theme of homeostasis. The course is designed for the beginning student preparing for these health-related fields: vocational nursing, radiologic technology; or those with a general interest in the function of the human body. This course will minimize bio-chemical and quantitative details taught in a general physiology course (e.g., PHYSIO 1), focusing on the fundamental concepts of physiology. (Not intended for nursing (RN), dental hygiene, or physical therapy majors.)

POLITICAL SCIENCE (POLS)

POLS 1 INTRODUCTION TO UNITED STATES GOVERNMENT

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: POLS 110
GE: *AA/AS areas D,F;CSU areas D,F2;IGETC area 4*
Description: Principles and problems of government with emphasis on national, state and local governments in the United States.

POLS 2 INTRODUCTION TO COMPARATIVE GOVERNMENT

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: POLS 130
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: This course addresses the basic processes and challenges that all political systems face and examines their expression in industrialized democracies, former and current communist states, and newly-industrialized and developing states.

POLS 18 POLITICAL THEORY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: POLS 120
GE: *AA/AS area D;CSU area D;IGETC area 4*

Description: An introduction to the history of Western political thought from Plato to the present. A survey of political writings from ancient, medieval and modern sources. Course topics include the evolution of Western political thought over the last 2,500 years; an examination of modern political ideologies (such as liberalism, conservatism, Marxism, and feminism); and an examination of the nature of justice and the relationship between the individual and the state.

POLS 25 INTRODUCTION TO INTERNATIONAL RELATIONS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: POLS 140
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: Introduction to politics, theory, and institutions of international relations with an emphasis on contemporary global issues.

PSYCHOLOGY (PSYCH)

PSYCH 1A GENERAL PSYCHOLOGY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: PSY 110
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: Scientific study of human behavior; emotions, thinking, heredity, environment, learning, intelligence, and human diversity.

PSYCH 1B INTRODUCTION TO PSYCHOLOGICAL RESEARCH METHODS

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of PSYCH 1A; AND Course Completion of MATH 15 OR PSYCH 9. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: PSY 200
Description: This course surveys various psychological research methods with an emphasis on research design, experimental procedures, descriptive methods, instrumentation, and the collection, analysis, interpretation, and reporting of research data. Research design and methodology will be examined through a review of research in a variety of the subdisciplines of psychology and applications in classroom experiments, surveys, and systematic and naturalistic observations.

PSYCH 3 HUMAN SEXUALITY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: PSY 130
GE: *AA/AS area D;CSU areas D,E;IGETC area 4*
Description: This course examines the biological, psychological, and social science of human sexuality. Major areas

of examination will include the history and science of sexology; male and female anatomy and physiology; sexual arousal and response; relationships, intimacy and communication; conception and contraception; sexually transmitted infections; and coercive sexuality and exploitation.

PSYCH 4 CHILD AND ADOLESCENT PSYCHOLOGY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: Development of the child from prenatal life to the adolescent years with emphasis on emotional, intellectual, social, and personal growth and development. (Grade only)

PSYCH 5 ABNORMAL PSYCHOLOGY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: This course examines the biological, psychological, and social science of abnormal psychology. Major areas of examination will include theoretical orientations, important psychotherapeutic methods, current issues in abnormal psychology and selected disorders such as depression, schizophrenia, and psychosomatic disorders.

PSYCH 7 THEORIES OF PERSONALITY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area D;CSU areas D,E;IGETC area 4*
Description: An examination of basic concepts, principles, and development of major theories of personality and their practical applications to social interactions, psychopathology, and treatment.

PSYCH 8 INTRODUCTION TO LIFESPAN PSYCHOLOGY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: PSY 180
GE: *AA/AS area D;CSU areas D,E;IGETC area 4*
Description: This course provides an overview, from a psychological perspective, of human development from conception through death, including biological and environmental influences. Theories and research of physical, cognitive, personality, and social development are examined, as well as attention to developmental problems.

PSYCH 9 INTRODUCTION TO BEHAVIORAL SCIENCES STATISTICS

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of MATH 154 OR MATH 155 OR higher or appropriate placement based on AB 705 mandates.; AND Course Completion of PSYCH 1A OR ANTHRO 1 OR SOC 1. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: SOCI 125
GE: *AA/AS areas B,MC;CSU area B4;IGETC area 2A*
Description: This course introduces statistical methods for analyzing data in the behavioral sciences. Topics include basic research design; descriptive statistics, probability and sampling distributions; statistical inference

and power; linear correlation and regression; t-test and analysis of variance; chi-square. Students use appropriate technology (e.g., calculators and SPSS) to analyze real-world data and report results using American Psychological Association style.

PSYCH 10 INTRODUCTION TO BIOLOGICAL PSYCHOLOGY

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of PSYCH 1A. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: This course introduces the scientific study of the biological basis of behavior and its fundamental role in the neurosciences. Physiological, hormonal, and neurochemical mechanisms, and brain-behavior relationships underlying the psychological phenomena of sensation, perception, regulatory processes, emotion, learning, memory, and psychological disorders will be addressed. The course also notes historical scientific contributions and current research principles for studying brain-behavior relationships and mental processes.

PSYCH 11 INTRODUCTION TO COGNITIVE PSYCHOLOGY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: This course provides an introduction to the basic concepts of cognitive psychology. Topics include perception, attention, memory, language, and thought. The relation of cognitive psychology to cognitive science and to neuropsychology is also covered.

PSYCH 30 SOCIAL PSYCHOLOGY

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: PSY 170
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: This course examines the mental processes, situational factors, individual differences, and group phenomena that influence the way people interact with other people, with emphasis on interpersonal attraction, attitudes and attitudinal change, prejudice and discrimination, and aggression.

PSYCH 34 THE PSYCHOLOGY OF PREJUDICE AND DISCRIMINATION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: SOCI 150
GE: *AA/AS areas D,G;CSU area E;IGETC area 4*
Description: This course examines systems of privilege, oppression, and institutionalized discrimination that influence and help maintain perceptions of race, gender, sexual orientation, class, and their psychological consequences. Racism, sexism, heterosexism, and classism are the major areas addressed with an emphasis on Native, African, Mexican/Latino, and Asian/Pacific Island American populations. Social movements organized within and among racial and ethnic groups that address institutional inequalities in U.S. society will also be analyzed.

PSYCH 35 PSYCHOLOGY OF PERSONAL AND SOCIAL ADJUSTMENT

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *CSU area E;IGETC area 4*
Description: This course examines the psychological principles, concepts, and processes that underlie the formation and development of human identity. Major emphases of study will be on human relations, personal adjustment, and identity development.

PSYCH 40 INTRODUCTION TO PSYCHOLOGY OF GENDER

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *CSU area E;IGETC area 4*
Description: An examination of the research and theory from psychology and related fields in order to evaluate the behavioral, biological, social, and cultural foundations in which women and men function. This course will explore classical and contemporary views of gender roles and the effects on individual development and relationships. The impact of economic and political change on gender expectations and practices will be analyzed.

PSYCH 52 INTERPERSONAL COMMUNICATION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
GE: *CSU area E*
Description: This psychology course examines interpersonal communication theory, principles, and skills that lead to effective interpersonal relations. Major emphases of study will be on the understanding of self and others in interpersonal communication.

PSYCH 56 AGING, DYING AND DEATH

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
GE: *CSU area E*
Description: Examination of aging, dying, death, and bereavement process in contemporary society.

PSYCH 57 INTRODUCTION TO SPORTS PSYCHOLOGY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
GE: *AA/AS area D;CSU areas D,E*
Description: This course will examine the major psychological theories utilized in current sport psychology research. The practical application of these theoretical constructs will be emphasized through discussion of techniques used to maximize participation and healthy behavior in sport.

RADIOLOGIC TECHNOLOGY (RADT)

RADT 60 INTRODUCTION TO RADIOLOGIC TECHNOLOGY

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of RADT 100 and Concurrent Enrollment in RADT 61A, RADT 71A (or formerly RADT 61.1AL), RADT 64 and RADT 64L. Limits on enrollment: Acceptance in program
Transferability: CSU.
Description: Introduction to the field of radiologic technology, equipment, digital technologies, radiologic and health care practices, and regulatory requirements.

RADT 61A RADIOGRAPHIC POSITIONING 1

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Concurrent Enrollment in RADT 60 and RADT 71A; Concurrent Enrollment in RADT 64 and RADT 64L. Limits on enrollment: Acceptance into the Radiologic Technology Program
Transferability: CSU.
Description: Radiographic anatomy, positioning, and image analysis. Instruction includes lecture and positioning demonstrations. Radiographic procedures of the chest, abdomen, extremities, hips, and pelvis. Radiographic image analysis for diagnostic quality.

RADT 61B RADIOGRAPHIC POSITIONING 2

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of RADT 61A; Concurrent Enrollment in RADT 71B and RADT 63A. Limits on enrollment: Acceptance in program
Transferability: CSU.
Description: Radiographic anatomy, positioning, and image analysis. Instruction includes lecture, positioning demonstrations, and practice. Students learn to perform radiographic procedures of the digestive, urinary, spine, sternum, ribs, mammography, and to evaluate images for diagnostic quality.

RADT 61C RADIOGRAPHIC POSITIONING 3

1 Unit/0.5 hour lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of RADT 61B and Concurrent Enrollment in RADT 71C. Limits on enrollment: Acceptance into program
Transferability: CSU.
Description: Radiographic anatomy, positioning, and image analysis. Instruction includes lecture, positioning demonstrations, and practice. Students learn to perform radiographic procedures of the skull, facial bones and orbits, mandible, temporomandibular joints. Evaluation of radiographic images for diagnostic quality.

RADT 63A RADIATION PHYSICS AND MEDICAL IMAGING SYSTEMS

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of RADT 61A and Concurrent Enrollment in RADT 61B and RADT 71B. Limits on enrollment: Acceptance in program
Transferability: CSU.
Description: Digital aspects of radiography, principles of radiographic exposure and formulation of radiographic technique. Principles of general and applied physics, electromagnetics, digital imaging, electrostatics, x-ray tube quality control, radiologic equipment and accessories, and imaging equipment and accessories.

RADT 63B RADIOBIOLOGY RADIATION PROTECTION, AND QUALITY CONTROL

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of RADT 63A and Concurrent Enrollment in RADT 71D. Limits on enrollment: Acceptance in program
Transferability: CSU.

Description: Principles of radiobiology, the short and long-term effects of radiation, health physics, introduction to fluoroscopy, quality control, and radiation protection procedures and design.

RADT 64 PATIENT CARE IN RADIOLOGY

3 Units/3 hours lecture. Grade Only. Prerequisite: Concurrent Enrollment in RADT 60, RADT 61A, RADT 71A (or formerly RADT 61.1AL), and RADT 64L. Limits on enrollment: Acceptance in program
Transferability: CSU.
Description: This course provides students with the principles of patient care, including consideration for the physical and psychological needs of the patient and family; routine and emergency patient care procedures; infection control; and the role of the radiologic technologist in patient education.

RADT 64L PATIENT CARE IN RADIOLOGY LABORATORY

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Concurrent Enrollment in RADT 60, RADT 64, RADT 61A and RADT 71A (or formerly RADT 61.1AL). Limits on enrollment: Acceptance in program
Transferability: CSU.
Description: Laboratory demonstration in a simulated clinical environment and practice of patient care skills required of the radiologic technologist.

RADT 65 PATHOLOGY IN RADIOLOGY

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of RADT 61C; AND Concurrent Enrollment in RADT 63B and RADT 71D.
Transferability: CSU.
Description: All aspects of radiographic pathology, including normal variations and abnormal changes due to diseases and trauma.

RADT 66 SPECIAL MODALITIES

4 Units/3.5 hours lecture, 1.5 hours laboratory. Grade Only. Prerequisite: Course Completion of RADT 63B and Concurrent Enrollment in RADT 71E.
Transferability: CSU.
Description: Principles of specialized imaging modalities. Principles of venipuncture, computerized tomography, fluoroscopy and its related equipment. Demonstration and practice of venipuncture.

RADT 68 PREPARATION FOR PROFESSIONAL PRACTICE

(Formerly RADT 62B) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of RADT 66 and Concurrent Enrollment in RADT 71F.
Transferability: CSU.
Description: Overview of the radiologic technology curriculum, certification regulations, and career development requirements, and development of a professional portfolio.

RADT 71A CLINICAL EXPERIENCE 1

4.5 Units/13.5 hours by arrangement. Grade Only. Prerequisite: Concurrent Enrollment in RADT 60, RADT 61A, RADT 64 and RADT 64L. Limits on enrollment: Acceptance into Program
Transferability: CSU.

Description: This is the first clinical course in the Radiologic Technology Program. Fundamental principles and skills are applied in the care of patients in assigned radiology departments under the direct supervision of a registered radiologic technologist for the completion of required clinical hours.

RADT 71B CLINICAL EXPERIENCE 2

6 Units/18 hours by arrangement. Grade Only. Prerequisite: Course Completion of RADT 71A; AND Concurrent Enrollment in RADT 61B and RADT 63A. Limits on enrollment: Acceptance into Program
Transferability: CSU.
Description: This is the second clinical course in the Radiologic Technology Program. Fundamental principles and skills are applied in the care of patients in assigned radiology departments under the direct supervision of a registered radiologic technologist for the completion of required clinical hours.

RADT 71C CLINICAL EXPERIENCE 3

2.5 Units/7.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of RADT 71B AND Concurrent Enrollment in RADT 61C. Limits on enrollment: Acceptance into Program
Transferability: CSU.
Description: This is the third clinical course in the Radiologic Technology Program. Fundamental principles and skills are applied in the care of patients in assigned radiology departments under the direct supervision of a registered radiologic technologist for the completion of required clinical hours.

RADT 71D CLINICAL EXPERIENCE 4

8.5 Units/25.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of RADT 71C AND Concurrent Enrollment in RADT 63B and RADT 65. Limits on enrollment: Acceptance into program
Transferability: CSU.
Description: This is the fourth clinical course in the Radiologic Technology Program. Intermediate/advanced principles and skills are applied in the care of patients in assigned radiology departments under the direct supervision of a registered radiologic technologist for the completion of required clinical hours.

RADT 71E CLINICAL EXPERIENCE 5

8.5 Units/25.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of RADT 71D; AND Concurrent Enrollment in RADT 65 and RADT 66. Limits on enrollment: Acceptance into Program
Transferability: CSU.
Description: This is the fifth clinical course in the Radiologic Technology Program. Fundamental and advanced principles and skills are applied in the care of patients in assigned radiology departments under the direct and indirect supervision of a registered radiologic technologist for the completion of required clinical hours.

RADT 71F CLINICAL EXPERIENCE 6

4 Units/12 hours by arrangement. Grade Only. Prerequisite: Course Completion of RADT 71E; AND Concurrent Enrollment in RADT 68. Limits on enrollment: Acceptance into Program
Transferability: CSU.
Description: This is the last clinical course in the Radiologic Technology Program. Advanced principles and skills are applied in the care of patients in assigned radiology departments under the direct supervision of a registered radiologic technologist.

RADT 98 INDEPENDENT STUDY IN RADIOLOGIC TECHNOLOGY

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of enrollment in the course by the Department Director
Transferability: CSU.
Description: Specific and in-depth study of selected topics of current interest in medical imaging.

RADT 100 SURVEY OF MEDICAL IMAGING

2 Units/2 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent and Course Completion of CI 54.
Description: A survey of careers and programs in medical imaging. Mathematical calculations used in radiology and radiation protection. Discussion of American Registry of Radiologic Technologists (ARRT) code of ethics, licensing eligibility, and impacts of medical imaging on general patient care and trauma care.

RADT 102 MAMMOGRAPHY FOR RADIOLOGIC TECHNOLOGY

1.25 Units/1.25 hours lecture. Grade Only. Prerequisite: Course Completion of RADT 61B and Concurrent Enrollment in RADT 102L. Limits on enrollment: Current Enrollment in the Radiologic Technology Program
Description: This course is intended for 2nd year radiologic technology students desiring California certification in mammography including anatomy, physiology, pathology, MQSA (Mammography Quality Standards Act) regulations., quality assurance, digital mammography and positioning of the human breast.

RADT 102L MAMMOGRAPHY FOR RADIOLOGIC TECHNOLOGY LAB

0.75 Unit/2.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of RADT 61B and Concurrent Enrollment in RADT 102. Limits on enrollment: Current Enrollment in the Radiologic Technology Program
Description: This course is intended for 2nd year radiologic technology students desiring California certification in mammography including anatomy, physiology, pathology, MQSA (Mammography Quality Standards Act), quality assurance, digital mammography and positioning of the human breast. Students will arrange for their own clinical site participation from any affiliated clinical site identified for SRJC Radiologic Technology by the CA Department of Public Health - Radiologic Health Branch. This course meets the State of California statute section 17 CCR § 30455.1 requirement for the Mammographic Radiologic Technology Certificate.

REAL ESTATE (RE)

RE 50 REAL ESTATE PRINCIPLES

(Formerly RE 80A) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Examination of the basic fundamentals of California real estate law; industry terminology and general principles necessary for sitting for State exam. Required prior to obtaining a state salesperson license; applies toward State's educational requirements for the broker's examination.

RE 51 REAL ESTATE PRACTICE

(Formerly RE 80C) 3 Units/3 hours lecture. Grade Only. Recommended: Course Completion of RE 50.
Transferability: CSU.
Description: Day to day operations in real estate roles and brokerage including listing, prospecting, advertising,

financing, sales techniques, escrow and professional ethics. Applies towards State's educational requirements for the salesperson's license and broker's license.

RE 52 REAL ESTATE FINANCE

(Formerly RE 80E) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Analysis of real estate financing, including lending policies and problems in financing transactions in residential apartments, commercial, and special purpose properties. Methods of financing properties emphasized. Applies toward State's educational requirements for the broker's examination and as a educational elective for the salesperson license.

RE 53 RESIDENTIAL REAL ESTATE APPRAISAL

(Formerly RE 80F) 3 Units/3 hours lecture. Grade Only. Recommended: Course Completion of RE 51 and RE 52.
Transferability: CSU.
Description: Introduction to principles and techniques required to determine the market value of residential properties and prepare a report. Applies toward the state's educational requirement for the brokers license and educational elective for the salesperson license.

RE 54 COMMERCIAL REAL ESTATE APPRAISAL

(Formerly RE 80J) 3 Units/3 hours lecture. Grade Only. Recommended: Course completion of RE 53 and RE 56.
Transferability: CSU.
Description: Methods and techniques of estimating the value of properties other than single residences. Application of income approach to commercial, industrial, and multiple residential properties. Applies toward State's educational requirements for the California Real Estate Broker's examination and educational elective for the salesperson license.

RE 55 LEGAL ASPECTS OF REAL ESTATE

(Formerly RE 80D) 3 Units/3 hours lecture. Grade Only. Recommended: Course Completion of RE 50.
Transferability: CSU.
Description: California real estate law, including rights incident to property ownership and management, agency, contracts, and application to real estate transfer. Conveyancing, probate proceedings, trust deeds, foreclosure, and recent legislation governing real estate transactions. Applies toward educational requirements for the California Real Estate Broker's examination.

RE 56 REAL ESTATE ECONOMICS

(Formerly RE 80G) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Trends and factors which affect the value of real estate; the nature and classification of land economics; the development of property, construction and subdivision; economic values and real estate evaluation; real estate cycles, business fluctuations, residential market trends, and special purpose property trends. Applies toward State's educational requirements for the California Real Estate Broker's examination and educational elective for the salesperson license.

RE 57 PROPERTY MANAGEMENT IN CALIFORNIA

(Formerly RE 80P) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Includes the principles and practices of managing income properties. Covers nature and types of property management, leases and contracts, collections, rent schedules, tenant selection and supervision, budgets, purchasing. Applies towards educational requirements for the California Real Estate Broker's Examination and salespersons examinations.

RE 58 REAL ESTATE ESCROW

(Formerly RE 80H) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Fundamental principles and basic procedures involved in ordinary escrow transactions and title insurance coverage. Designed for real estate licensees and those desiring careers in title insurance and escrow fields. Applies toward educational requirements for the California Real Estate Broker's and salespersons examination.

RE 59 ADVANCED RESIDENTIAL APPRAISAL

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of RE 53. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Designed to give a broader understanding of residential appraisal procedures and analysis for one to four units, condominiums, and fractional interest properties. Proper application of Income Capitalization, Income Multipliers, and Adjustment Methods for advanced residential and small income producing properties. Applies toward the California Broker and Office of Real Estate Appraisers (OREA) education requirements.

RELIGIOUS STUDIES (RELS)

RELS 1 INTRODUCTION TO RELIGIOUS STUDIES

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: This course introduces the study of religion as a critical, academic discipline. It will explore the meaning, origins and function of religion, and illustrate these by drawing on myths, rituals, symbols, and beliefs from cultures all over the globe and through human history. The course will survey the evolution and content of various theories and methods in the study of religion, as well as career opportunities in the field.

RELS 2 WORLD RELIGIONS

(Formerly PHIL 8) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C2;IGETC area 3B*
Description: Comparative study of the doctrines, beliefs, historical development, and practices of the major religions of the world.

RELS 3 HISTORY OF GOD

(Formerly HUMAN 10.3) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Course Completion of RELS 1 and Course Completion of RELS 1 and Course Completion of RELS 1 and Course Completion of RELS 1 and Course Completion of RELS 1 and Course Completion of RELS 1 and Course Completion of ENGL 1ACourse Completion of ENGL 1ACourse Completion of ENGL 1ACourse Completion of ENGL 1ACourse Completion of ENGL 1ACourse Completion of ENGL 1A.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: The origins and evolution of monotheism from ancient Egypt and Canaan, through ancient Israel and its variations in Judaism, Christianity and Islam.

RELS 6.66 HISTORY OF SATAN

(Formerly HUMAN10.66) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: This course traces the development of the character Satan or "The Devil" from its beginnings in Biblical literature and analogs in the ancient Near East. It will examine the evolution of the idea of Satan through Jewish, Christian and Islamic texts, influences from neighboring religions, as well as related literary works and social movements of the Medieval and Renaissance and modern periods.

RELS 7 WISDOM RELIGIONS OF ASIA

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C2;IGETC area 3B*
Description: An introductory survey of the religious wisdom traditions, beliefs, and practices of ancient and modern India, ancient and medieval China, and medieval and modern Japan.

RELS 8 BUDDHISM

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C2;IGETC area 3B*
Description: A historical introduction to the origins of Buddhism, the principal doctrines and teachings of the Buddha, and major themes in the development of Theravada, Mahayana, and Vajrayana lineages through South and Southeast Asia, China, Tibet, Korea, and Japan.

RELS 15 ISLAM

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,H;CSU area C2;IGETC area 3B*
Description: This course will explore the origins, spread, and history of Islam, as well as its diversity and presence in the modern world. It will give the student a thorough introduction to the life of Muhammad, the Qur'an, the Hadith, Sunni/Shiite differences, Sufism, Islamic law, philosophy, politics, art, and will discuss Western perceptions, portrayals and encounters with Islam, past and present.

RELS 21 THE HEBREW BIBLE

(Formerly HUMAN 10.1) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: A critical survey of the Hebrew Bible (Old Testament) which traces its historical development in the context of Ancient Near Eastern cultures. The course explores its great stories, personalities, themes, and their global impact on civilizations.

RELS 22 EARLY CHRISTIAN LITERATURE

(Formerly HUMAN 10.2) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: An historical-critical study of the origins and early development of Christianity by investigating a range of Christian texts from the first two centuries against the background of comparative Jewish and Greco-Roman cultural contexts.

RELS 32 RELIGION IN AMERICA

(Formerly HUMAN 10.4) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,G;CSU area C2;IGETC area 3B*
Description: This course will explore and analyze the history of and interaction among diverse ethnic and cultural groups in the shaping of American religious discourse and institutions and the encounter between secular and religious forces. It will survey the many multi-cultural personalities, ideas, and movements of the past 400 years.

RENEWABLE ENERGY (RENRG)

RENRG 156 PHOTOVOLTAIC SYSTEMS DESIGN AND INSTALLATION

(Formerly ELEC 156) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion or Current Enrollment in ELEC 51A. Recommended: Course Completion of MATH 150A OR MATH 150.
Description: Introduction to photovoltaic technology and its practical application. Focus is on residential and small commercial photovoltaic systems: how they work, the equipment required, and maximizing energy harvest in both utility interactive and off-grid applications. Provides the basic understanding required to size, site, design, and install code-compliant solar energy systems. Course is registered provider of the NABCEP Entry Level Certificate of Knowledge Exam (optional at end of semester).

RENRG 157 ADVANCED PHOTOVOLTAIC SYSTEMS

2 Units/2 hours lecture. Grade Only. Prerequisite: Course Completion of ELEC 156.
Description: Advanced topics in applied photovoltaic technology. Includes applying the National Electrical Code (NEC) and California Electrical Code (CEC) to photovoltaic installations, OSHA safety requirements, commercial applications, off-grid and direct coupled systems, and emerging thin-film technologies.

SOCIAL SCIENCE (SOCS)

SOCS 12 ENVIRONMENTAL POLICY AND POLITICS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: Introduction to environmental studies, examining the political processes and institutions involved in implementing public policy to address environmental problems with emphasis on national and international issues.

SOCS 49 INDEPENDENT STUDY IN SOCIAL SCIENCE

1-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Seminars or individual conferences by arrangement to provide for independent study and enriched academic experience in Social Science. UC determines credit AFTER transfer; not counted for admission. (See a counselor for details.)

SOCIOLOGY (SOC)

SOC 1 INTRODUCTION TO SOCIOLOGY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: SOCI 110
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: An exploration of American society from several levels of analysis including face-to-face social interaction, groups, and institutions. This exploration is accomplished through the use of lectures, small group interaction, multimedia and guest speaker presentations.

SOC 2 MODERN SOCIAL PROBLEMS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: SOCI 115
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: Analysis of contemporary social problems. Topics include globalization, environmental issues, poverty, work, health and mental health care, the educational system, criminal justice, the basis of inequalities, and the role of power in defining social problems.

SOC 3 SELF AND SOCIETY

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area D;CSU area D;IGETC area 4*
Description: This course is an introduction to the sociological study of face-to-face interaction, exploring the social factors that influence how we see ourselves and how we manage our presentations of self to others.

SOC 5 SOCIOLOGICAL RESEARCH METHODS

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of SOC 1. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: This course serves as an introduction to research methods in Sociology, including principles of research design and critical analysis. Students will acquire skills for both designing and conducting a Sociological research project.

SOC 10 CLOSE RELATIONSHIPS AND FAMILY LIFE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: SOCI 130
GE: *AA/AS area D;CSU areas D,E;IGETC area 4*
Description: An examination of current trends related to forming and sustaining relationships as well as issues of family life. Emphasis is placed on the influence of society and the challenges that contemporary couples and families face over their lifespans.

SOC 30 RACE AND ETHNIC RELATIONS

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: SOCI 150
GE: *AA/AS areas D,G;CSU area D;IGETC area 4*
Description: The sociological study of race and ethnicity in the United States. The course takes a comparative approach in analyzing group interaction, prejudice, privilege, and discrimination. Students will explore the history of immigration, the process of assimilation, and dominant-minority relations over time.

SPANISH (SPAN)

SPAN 1 ELEMENTARY SPANISH-PART 1

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: SPAN 100
GE: *AA/AS area E;CSU area C2;IGETC area 6A*
Description: Introduction to Spanish grammar and development of all language skills in a cultural context with special emphasis on inter-personal communication.

SPAN 2 ELEMENTARY SPANISH-PART 2

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Two years of high school Spanish or SPAN 1. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: SPAN 110
GE: *AA/AS area E;CSU area C2;IGETC areas 3B,6A*
Description: Part Two of Elementary Spanish, continued introduction to Spanish grammar and development of language skills in a cultural context with special emphasis on communication.

SPAN 3 INTERMEDIATE SPANISH-PART ONE

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Course Completion of SPAN 2 OR SPAN 40. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: SPAN 200
GE: *AA/AS area E;CSU area C2;IGETC areas 3B,6A*
Description: Speaking, reading and writing in Spanish with discussions and essays to develop linguistic skill and cultural knowledge, bridging from first-year linguistic and cultural content.

SPAN 4 INTERMEDIATE SPANISH-PART 2

4 Units/4 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Completion of SPAN 3, SPAN 41, or 4 years of high school Spanish. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: SPAN 210
GE: *AA/AS areas E,G;CSU area C2;IGETC areas 3B,6A*
Description: Development of Spanish language skills in a cultural context at an intermediate level. Emphasis is on communication, with discussion, essays and readings to assure control of linguistic and cultural principles. Includes a review of intermediate linguistic content and cultural topics.

SPAN 40 INTRODUCTORY SPANISH FOR SPANISH SPEAKERS

4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Course Completion of Spanish 1; or 2 years high school Spanish or equivalent. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC area 3B*
Description: Introductory Spanish for Spanish speakers who have had little or no formal training in the language. Building upon students' existing skills, this course will provide strategies for reading, writing and speaking incorporating usage of standard academic Spanish. Special emphasis will be given to vocabulary expansion, accurate use of grammar, accentuation, punctuation, and orthography. The course will present topics related to Latino culture, literature and history to deepen students' appreciation of their linguistic and cultural heritage.

SPAN 41 INTERMEDIATE SPANISH FOR SPANISH SPEAKERS

4 Units/4 hours lecture. Grade or P/NP. Prerequisite: Course Completion of SPAN 40 OR Course Completion of SPAN 2. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS area E;CSU area C2;IGETC areas 3B,6A*
Description: This course is a continuation of Spanish 40 and is especially designed for students who are fluent in

Spanish and who want to reinforce formal oral and written expression and comprehension. This course will provide strategies for speaking, listening, reading and writing to develop essays and guided compositions with emphasis on grammar and syntax. This course will include the study of Latino and Chicano culture through short stories, poetry, music, movies, and literature to develop an understanding and appreciation for their linguistic and cultural heritage.

SPAN 49 INDEPENDENT STUDY IN SPANISH

1-3 Units/Up to 9 hours by arrangement. Grade Only. Prerequisite: Course Completion of SPAN 2. Recommended: Eligibility for ENGL 1A or equivalent or appropriate placement based on AB705 mandates. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Individual conferences or small group seminars by arrangement to provide for independent research and enriched academic experience in Spanish culminating in a final written and/or oral product. Course content varies but must not replicate the content of existing courses, and is established according to the independent study application process. Students should have at least a 2.00 (C) grade average in all courses previously taken in Spanish. NOTE: UC determines credit AFTER transfer; not counted for admission. See a counselor for details.

SPAN 50A CONVERSATION FOR BEGINNERS-PART 1

3 Units/3 hours lecture, 1 hour by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: A beginning conversational Spanish course designed to develop listening and speaking skills needed at school, on the job and in Spanish-speaking communities. Provides introduction to the core grammatical structures and vocabulary required for communication. Not recommended for heritage speakers of Spanish or students with two years of high school Spanish or one year of college Spanish with "A" or "B" grade within the past three years.

SPAN 50B CONVERSATION FOR BEGINNERS-PART 2

3 Units/3 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Course Completion of SPAN 50A or SPAN 1. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: A continuation of beginning conversational Spanish course designed to improve those listening and speaking proficiences needed at school, on the job, in the community, and in the Spanish-speaking world. Students participate in a variety of pronunciation, listening and conversational activities. An introduction to and development of the core grammatical structures and vocabulary required for communication.

SPAN 50C INTERMEDIATE CONVERSATION

3 Units/3 hours lecture, 1 hour by arrangement. Grade or P/NP. Prerequisite: Course Completion of SPAN 50B OR SPAN 2. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: An intermediate-level Spanish conversation course designed to further advance fluency through active vocabulary development, verb tense use, listening and oral practice.

SPAN 72 SPANISH FOR THE WINE INDUSTRY

3 Units/3 hours lecture, 1 hour by arrangement. Grade or P/NP. Recommended: Course Completion of SPAN 1 OR two years of high school Spanish.
Transferability: CSU.
Description: Development of wine industry-related communications skills through grammar, vocabulary and cultural Spanish language activities and exercises. Emphasis will be on culturally appropriate communication tools.

SPECIAL EDUCATION (SE)

SE 580 INVOLVED ELDER

0 Unit/20 hours laboratory. Non-Credit Course.
Description: The course is designed to enrich the quality of life for older adults with limited physical and cognitive functioning, in order to promote or maintain physical, mental, social and emotional well-being. The course accommodates varying skill levels. A variety of stimulating activities are incorporated, including mild exercise, brain aerobics, music and arts and crafts. This course is offered at numerous locations throughout Sonoma County in partnership with senior service providers.
Exempt From Repeat Provisions

SE 711 COMMUNITY LIVING SKILLS FOR PERSONS WITH DISABILITIES

0 Unit/20 hours by arrangement. Non-Credit Course.
Description: This course is designed for people with developmental disabilities living independently. Students are instructed in areas such as health and safety, housekeeping, interpersonal relationships, money management and community access. Individualized and group instruction are provided. This course is offered in partnership with non-profit community agencies.
Exempt From Repeat Provisions

SE 712 INDEPENDENT LIVING/WORK SKILLS FOR PERSONS WITH DISABILITIES

0 Unit/30 hours by arrangement. Non-Credit Course.
Description: The course prepares persons with substantial disabilities for remunerative employment and independent living in the community. Each student's learning is directed by an individualized plan. The course is conducted at agency sites, selected industrial/business locations, and community sites. The course is offered in cooperation with non-profit community agencies.
Exempt From Repeat Provisions

SUMMER REPERTORY THEATRE (SRT)

SRT 47 SUMMER REPERTORY THEATRE - REPERTORY COMPANY

(Formerly THAR 47) 6 Units/19.25 hours laboratory. Grade Only. Recommended: Previous experience in theatre production. Limits on enrollment: By Audition
Transferability: CSU;UC.
Description: Summer Repertory Theatre (SRT) is a complete and extensive practicum in all aspects of stage production; acting, singing, dancing, stagecraft, costuming and theatre management are taught through a comprehensive program of rehearsal and public performance for the career-oriented student.

SRT 47.1 SUMMER REPERTORY THEATRE - ENSEMBLE ACTING

(Formerly THAR 47.1) 6 Units/19.25 hours laboratory. Grade Only. Recommended: Previous experience in theatre production. Limits on enrollment: By Audition
Transferability: CSU;UC.
Description: Preparation for and public presentation of ensemble acting roles during the Summer Repertory Theatre season. All students will be cast in an ensemble role in the mainstage season and perform in a workshop production for an invited audience.

SRT 47.2 SUMMER REPERTORY THEATRE - STAGECRAFT

(Formerly THAR 47.2) 6 Units/19.25 hours laboratory. Grade Only. Recommended: Previous experience in theatre production. Limits on enrollment: By Audition
Transferability: CSU;UC.
Description: Preparation, construction practical experience in the art of physical stage production, including scenery, properties, lighting and sound. Students also serve as a member of the technical crew for multiple theatre performances during the Summer Repertory Theatre season.

SRT 47.3 SUMMER REPERTORY THEATRE - COSTUMES, MAKEUP AND HAIR

(Formerly THAR 47.3) 6 Units/19.25 hours laboratory. Grade Only. Recommended: Previous experience in theatre production. Limits on enrollment: By Audition
Transferability: CSU;UC.
Description: Preparation, construction and practical experience as a member of the costume and/or makeup/hair crew for multiple theatre performances during the Summer Repertory Theatre season.

SRT 47.4 SUMMER REPERTORY THEATRE - THEATRE ORCHESTRA

(Formerly THAR 47.4) 6 Units/19.25 hours laboratory. Grade Only. Limits on enrollment: By Audition
Transferability: CSU;UC.
Description: Rehearsal and performance of an instrumental part in a musical theatre production for public presentation during the Summer Repertory Theatre season. Focus of the course is on learning the show's music and the incorporation of the music into the overall production.

SRT 47.5 SUMMER REPERTORY THEATRE - THEATRE MANAGEMENT

(Formerly THAR 47.5) 6 Units/19.25 hours laboratory. Grade Only. Recommended: Previous experience in theatre production. Limits on enrollment: By Audition
Transferability: CSU;UC.
Description: Preparation and practical experience in the art of theatre management, including stage management,

production management, business management and promotions. Students will complete management responsibilities during rehearsals and performances for multiple productions during the Summer Repertory Theatre season.

SURVEYING (SURV)

SURV 53 ROUTE SURVEYING & DESIGN

(Formerly CEST 53) 4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of CEST 51 and SURV 60.
Transferability: CSU.
Description: Route surveying and design. Geometric design and construction staking of transportation routes. Use of electronic surveying equipment, computers, data collectors. Introduction to photogrammetry and Global Positioning Systems (GPS).

SURV 56 INTRODUCTION TO GPS LAND SURVEYING

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of APTECH 191 and Course Completion of SURV 60.
Transferability: CSU.
Description: An introduction to the principles and applications of satellite-based land surveys, coordinate systems, Global Positioning Systems (GPS) and Global Navigation Satellite Systems (GNSS) including the concepts and practice of precise location, navigation, GNSS signal interpretation, data collection, data processing, statistical adjustment and reporting.

SURV 58 EVIDENCE AND PROCEDURES FOR BOUNDARY DETERMINATION

(Formerly CEST 59A) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of SURV 60.
Transferability: CSU.
Description: Introduction to the historic development, current concepts, and evidence and procedures used in boundary determination. This course is designed for those in the field of civil engineering, land surveying, real estate and title insurance.

SURV 59 BOUNDARY CONTROL & LEGAL PRINCIPLES

(Formerly CEST 59B) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion of SURV 51.
Transferability: CSU.
Description: Introduction to the concepts in boundary control and legal principles associated with the history and current concepts of boundary line and property corner location. This is the second of two courses developed for those in the field of land surveying, civil engineering, title insurance and real estate interested in gaining a better understanding of boundary and legal principles.

SURV 60 INTRODUCTION TO PLANE SURVEYING

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Recommended: Course Completion or Concurrent Enrollment in APTECH 90A, APTECH 191, MATH 154, or MATH 155.
Transferability: CSU.
Description: Introduction to the principles and practice of plane surveying, including measurements for distance, direction, elevation and position, topographic and planimetric mapping, use and care of surveying equipment.

SUSTAINABLE AGRICULTURE (SUSAG)

SUSAG 50 INTRODUCTION TO SUSTAINABLE AGRICULTURE

(Formerly SUSAG 100) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
GE: *AA/AS area C;CSU area B1*
Description: Designed to provide an introductory overview of the issue of sustainability in agroecosystems, this course introduces the concepts and principles of agroecology as applied to the design and management of sustainable agricultural systems. Includes an examination of case studies to connect sustainable agriculture principles to actual farming practices. Course includes mandatory field trips to local farms and guest speakers.

SUSAG 64 WARM SEASON VEGETABLE PRODUCTION

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: Cultural practices, varieties, and economics of production of major warm season vegetable crops in Sonoma County. Topics include strategies for starting and maintaining crops, innovative irrigation methods, essential weed and pest control measures, and marketing. Application of production techniques at SRJC's Shone Farm acreage. Focus will be on organic systems but course content will be useful to all growers.

SUSAG 65 COOL SEASON VEGETABLE PRODUCTION

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU.
Description: Cultural practices, varieties, and economics of production of major cool season vegetable crops in Sonoma County. Topics include strategies for starting and maintaining crops, innovative irrigation methods, essential weed and pest control measures, and marketing. Application of production techniques at SRJC's Shone Farm acreage. Focus will be on organic systems but course content will be useful to all growers.

SUSAG 103 COMPOSTING FOR COMMERCIAL ORGANIC FARMING AND GARDENING

(Formerly AG 125) 1 Unit/1 hour lecture. Grade or P/NP.
Description: Composting is the cornerstone of soil fertility management in all segments of organic agriculture production. Successful composting requires at least a minimum of technical knowledge of soil structures and organic matter decomposition processes. Topics will include these basics and a survey of a variety of composting methods. Focus will be on composting for small commercial fruit, vine and vegetable operations, but the information will be of almost equal importance for dairy farmers or hay producers, as well as for residential and commercial settings. This is an introductory course aimed at the professional or serious student of agriculture.

SUSAG 109 ORGANIC CROP PLANNING AND PRODUCTION

4 Units/3 hours lecture, 3 hours laboratory. Grade Only. Recommended: Course Completion or Current Enrollment in AGRI 20 and AGRI 60.
Description: A hands-on practicum in organic farming, this course covers planning and production practices for market farms. Topics include seasonal crop selection, planting procedures, cultural practices, harvesting and post harvest for organic production of vegetable and grain crops in small commercial operations. Both manual and machine powered management techniques will be discussed. Includes hands-on management of greenhouse starts and farm plots at Shone Farm.

SUSAG 116 ORGANIC APPLE PRODUCTION

1 Unit/1 hour lecture, 0.75 hour laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course emphasizes organic apple production practices and is intended for current or potential apple producers. Emphasizes available and effective methods in commercial or small-scale organic contexts.

SUSAG 117 ORGANIC FRUIT TREE AND BERRY PRODUCTION

1.5 Units/1 hour lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Fruit tree and berry vine selection, planting, and care for small-scale orchard or home garden. Includes desirable varieties, pruning and training methods, and pest management. Emphasis on organic production methods.

SUSAG 118 OLIVE OIL PRODUCTION, PROCESSING & SENSORY EVALUATION

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Production and processing of high quality olive oil in California. Includes variety selection, cultural methods, pest management, harvest, processing, and sensory evaluation of olive oil.

SUSAG 119 SPECIALTY CROP PRODUCTION

2 Units/2 hours lecture, 1 hour by arrangement. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Production of specialty horticulture crops including cultural practices, marketing and management decisions. Emphasis on Sonoma County fruit, vegetable and berry production for the gourmet market. Includes field trips and guest speakers.

SUSAG 120 ORGANIC GARDENING AND FOOD PRODUCTION

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Exploration of organic gardening principles and practices with an emphasis on organic production techniques. Application of hands-on techniques for locally and seasonally appropriate production will focus on edible crops including vegetables, fruits, flowers, and herbs appropriate for the home garden. Includes field trips and guest speakers. Class meets at Shone Farm, where students will design, establish and maintain their own garden plots.

SUSAG 153 COMMUNITY SUPPORTED AGRICULTURE

3 Units/3 hours lecture, 0.5 hour laboratory. Grade or P/NP.
Description: This course will address aspects of fall crop management, production, and marketing as it relates to the development and operations of a Community Supported Agriculture (CSA) farm model. Students will gain

hands-on experience of operating a CSA through direct participation in the Shone Farm CSA.

SUSAG 160 DIRECT FARM MARKETING

2 Units/2 hours lecture, 1 hour laboratory. Grade or P/NP.
Description: This class is an overview and hands-on experience of marketing practices used by farms to provide local food direct to consumer. Includes innovative marketing practices for the small to medium size grower, post harvest handling of produce, food safety, promotion and distribution. Class practicum includes hands-on participation with the SRJC campus produce stand, Shone Farm Community Supported Agriculture (CSA) and fall festival. Class includes mandatory field trips to local direct retail outlets.

SUSAG 163 COMMUNITY SUPPORTED AGRICULTURE SUMMER

2 Units/2 hours lecture. Grade or P/NP.
Description: This course is a continuation of the Community Supported Agriculture (CSA) course offered in the department. The summer class will address those aspects of crop planning, management, harvest and postharvest appropriate to the summer season. Continued discussion of CSA operations and consumer relations will be included. Students will gain hands-on experience of operating a CSA through direct participation in the Shone Farm CSA.

THEATRE ARTS (THAR)

THAR 1 WORLD THEATRE THROUGH TIME

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
C-ID: THTR 113
GE: *AA/AS areas E,H;CSU area C1;IGETC area 3A*
Description: A study of the major periods in world theatre history from the origins of theatre through the end of the 17th century, focusing on significant works of dramatic literature, as well as the global and cultural influences from which they emerged. Emphasis is placed on the interrelationship between theatre of different times and cultures, and the historical importance of theatre in society. Attendance at two or more SRJC Theatre Arts Department productions is required.

THAR 2 INTRODUCTION TO THEATRE ARTS

(Formerly THAR 301) 3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
C-ID: THTR 111
GE: *AA/AS area E;CSU area C1;IGETC area 3A*
Description: An introduction to theatre as both an art form and social forum, emphasizing the interrelated processes of playwriting, acting, directing, design, technical theatre, theatre criticism, theatre management, and theatre architecture. Students will study theatre from a variety of perspectives through lectures, attending plays, reading scripts, and hands-on experiences. Required attendance at three to four assigned theatre productions (discounted admission; students provide own transportation).

THAR 6 MULTICULTURAL PERSPECTIVES IN AMERICAN THEATRE

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
GE: *AA/AS areas E,G;CSU area C1;IGETC area 3A*
Description: An introduction to cultural influences and trends in American Theatre through the study of contemporary African American, Asian American, Latino, and Native American drama. The course will focus on script analysis, video presentations, and play productions to gain a deeper understanding of theatrical expression in each culture.

THAR 10A INTRODUCTION TO ACTING

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU;UC.
C-ID: THTR 151
Description: An introduction to fundamental acting techniques and concepts through exercises, theatre games, and improvisation, as well as lecture/demonstration. Designed for both majors and non-majors, this course includes individual and partnered performance assignments. Attendance at one or more SRJC Theatre Arts Department productions is required.

THAR 10B SCENE STUDY AND CHARACTERIZATION

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of THAR 10A.
Transferability: CSU;UC.
C-ID: THTR 152
Description: An intensive acting study of characterization focusing on psychological, physical, and vocal techniques, as exhibited through modern/contemporary scene work. The course focuses on Stanislavski-influenced theoretical methods and script analysis, as well as an introduction to the business of acting. Attendance at one or more SRJC Theatre Arts productions is required.

THAR 11.1 PERFORMANCE: NON-MUSICAL

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: By audition only
Transferability: CSU;UC.
C-ID: THTR 191
Description: Preparation and presentation of an acting role in a non-musical play for public performance.
4 Enrollments Total

THAR 11.2 PERFORMANCE: MUSICAL

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: By audition only
Transferability: CSU;UC.
C-ID: THTR 191
Description: Preparation and presentation of an acting role in a musical theatre production for public performance.
4 Enrollments Total

THAR 11.3 PERFORMANCE: MUSICAL - DANCE

1-2 Units/Up to 6 hours by arrangement. Grade Only. Prerequisite: Concurrent Enrollment in THAR 11.2 OR THAR 81A. Limits on enrollment: By audition only.
Transferability: CSU;UC.
Description: Rehearsal and performance of ensemble dance numbers and other choreographic staging for musical numbers and scenes in the context of musical theatre or opera productions.
4 Enrollments Total

THAR 11.4 PERFORMANCE: MUSICAL-VOCAL

1-2 Units/Up to 6 hours by arrangement. Grade Only. Prerequisite: Concurrent Enrollment in THAR 11.2. Limits on enrollment: By audition only
Transferability: CSU;UC.
Description: Preparation and presentation of the vocal components of a role in a musical theatre production for public performance. Focus of the course is on learning the show's songs while incorporating character and theatrical voice techniques.
4 Enrollments Total

THAR 11.5A PERFORMANCE: MUSICAL-INSTRUMENTAL FIRST EXPERIENCE

(Formerly THAR 11.5) 0.5-2 Units/Up to 6 hours by arrangement. Grade Only. Limits on enrollment: By audition only
Transferability: CSU;UC.
Description: Rehearsal and performance of an instrumental part in a musical theatre production for public presentation. Focus of the course is on learning the musical score and incorporating it into the overall production.

THAR 11.5B PERFORMANCE: MUSICAL-INSTRUMENTAL 2

0.5-2 Units/Up to 6 hours by arrangement. Grade Only. Prerequisite: Course Completion of THAR 11.5A. Limits on enrollment: By audition only
Transferability: CSU;UC.
Description: This course involves rehearsal and performance of an instrumental part in a musical theatre production for public presentation and is designed for experienced musicians who are able to perform at college level. The musical changes every time the course is offered. Students should complete one semester of the previous component (THAR 11.5A) before enrolling in the next component.

THAR 11.8 PERFORMANCE: DANCE CONCERT

0.5-1 Unit/Up to 3 hours by arrangement. Grade Only. Limits on enrollment: By audition only.
Transferability: CSU;UC.
Description: Preparation and presentation of a full theatrical dance concert for public performance.
4 Enrollments Total

THAR 13.1A PERFORMANCE WORKSHOP: STYLES, PERIODS AND SKILLS I

(Formerly THAR 13.1) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of THAR 10B AND Concurrent Enrollment in THAR13.1AL.
Transferability: CSU;UC.
Description: Introduction to three different acting styles, including non-realistic styles and period realism, as well

as further study of acting theory and specialized performance skills. Styles to be studied change each time the course is offered. This combination instruction/performance ensemble course requires night rehearsals during the last two weeks of classes and culminates in an evening public showcase performance.

THAR13.1AL PERFORMANCE WORKSHOP LAB: STYLES, PERIODS AND SKILLS I

0.5 Unit/1.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of THAR 10B AND Concurrent Enrollment in THAR 13.1A.
Transferability: CSU;UC.
Description: This lab meets the last two weeks of the semester for extended and advanced preparation related to the performance of non-realistic styles and period realism, as well as further study of acting theory and specialized performance skills. This lab results in a showcase performance open to the public. Three different styles are studied and will change each time the course is offered.

THAR 13.1B PERFORMANCE WORKSHOP: STYLES, PERIODS AND SKILLS II

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of THAR 13.1A AND Concurrent Enrollment in THAR 13.1BL.
Transferability: CSU;UC.
Description: This course continues an introduction to non-realistic styles and period realism, as well as further study of acting theory and specialized performance skills. Three different styles are introduced over the course of the semester; styles studied will change each time the course is offered. This combination instruction/performance ensemble course requires night rehearsals during the last two-three weeks of classes and culminates in an evening public showcase performance.

THAR 13.1BL PERFORMANCE WORKSHOP LAB: STYLES, PERIODS AND SKILLS II

0.5 Unit/1.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of THAR13.1AL and Concurrent Enrollment in THAR 13.1B.
Transferability: CSU;UC.
Description: This lab meets the last two weeks of the semester for extended and advanced preparation related to the performance of non-realistic styles and period realism, as well as further study of acting theory and specialized performance skills. This lab results in a showcase performance open to the public. Three different styles are studied and will change each time the course is offered.

THAR 13.2A PERFORMANCE WORKSHOP: SHAKESPEARE I

(Formerly THAR 13.2) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of THAR 10B and Concurrent Enrollment in THAR13.2AL (or THAR 62.1L). Recommended: Course Completion of THAR 1 OR Course Completion of ENGL 27.
Transferability: CSU;UC.
Description: Introduction to performing Shakespeare through an exploration of historical context, text analysis, acting theory, and performance techniques. Includes both in-depth monologue and scene work, resulting in a showcase performance open to the public.

THAR13.2AL PERFORMANCE WORKSHOP LAB: SHAKESPEARE I

0.5 Unit/1.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of THAR 10B AND Concurrent Enrollment in THAR 13.2A. Recommended: Course Completion of THAR 1 OR Course Completion of ENGL 27.
Transferability: CSU;UC.
Description: This lab meets the last two weeks of the semester for extended preparation related to performing Shakespeare through an exploration of historical context, text analysis, acting theory, and performance techniques. Includes both in-depth monologue and scene work, resulting in a showcase performance open to the public.

THAR 13.2B PERFORMANCE WORKSHOP: SHAKESPEARE II

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Completion of THAR 13.2A AND Concurrent Enrollment in THAR 13.2BL. Recommended: Course Completion of THAR 1 OR Course Completion of ENGL 27.
Transferability: CSU;UC.
Description: Continuing the study of performing Shakespeare through an exploration of historical context, text analysis, acting theory, and performance techniques. Includes both in-depth monologue and scene work, resulting in a showcase performance open to the public.

THAR13.2BL PERFORMANCE WORKSHOP LAB: SHAKESPEARE II

0.5 Unit/1.5 hours by arrangement. Grade Only. Prerequisite: Course Completion of THAR13.2AL and Concurrent Enrollment in THAR 13.2B. Recommended: Course Completion of THAR 1 OR Course Completion of ENGL 27.
Transferability: CSU;UC.
Description: This lab meets the last two weeks of the semester for extended preparation related to performing Shakespeare at an intermediate level through an exploration of historical context, text analysis, acting theory, and performance techniques. Includes both in-depth monologue and scene work, resulting in a showcase performance open to the public.

THAR 17 MUSICAL THEATRE TECHNIQUES

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Course Completion of THAR 10A OR MUSCP 17A OR DANCE 10.
Transferability: CSU;UC.
Description: Introduction to musical theatre performance through the study and practice of musical scenes from the Broadway stage. Emphasis is placed on the application of vocal techniques, dance movement and characterization to create a convincing performance. Audition skills as they relate to musical theatre will be included.

THAR 19 INTRODUCTION TO MOVEMENT AND MASK

2 Units/2 hours lecture, 1 hour laboratory. Grade Only.
Transferability: CSU;UC.
Description: Fundamental study of movement and masks for the student performer. Emphasis is placed on developing within the actor an understanding of their body as an instrument of expression and communication. The course encompasses exercises and improvisational explorations based on a variety of techniques for developing body and spatial awareness. These include an introduction to mime, the use of Neutral Mask and character masks, and ensemble development exercises.

THAR 20 INTRODUCTION TO STAGECRAFT

3 Units/1 hour lecture, 5 hours laboratory, 1 hour by arrangement. Grade Only. Prerequisite: Concurrent Enrollment in THAR 25 or THAR 25.2 or THAR 25.5.
Transferability: CSU;UC.
C-ID: THTR 171
Description: Methods, materials and techniques of realizing the physical production on the stage, which include scenery, properties, lighting, and sound.

THAR 21A INTRODUCTION TO COSTUME TECH

(Formerly THAR 21) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Concurrent Enrollment in THAR 25 or THAR 25.1 or THAR 25.5. Recommended: Course Completion or Concurrent Enrollment in THAR 2.
Transferability: CSU;UC.
C-ID: THTR 174
Description: Introduction to practical application of methods, materials, and techniques used in costume construction with additional emphasis on related crafts and design as applied to the creative storytelling process of a public performance.

THAR 21B COSTUME TECHNOLOGY II

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course completion of THAR 21A.
Transferability: CSU;UC.
Description: This course continues application of methods, materials, and techniques used in costume construction with additional emphasis on related crafts and design as applied to the creative storytelling process of a public performance, at an intermediate level.

THAR 22 THEATRICAL MAKEUP DESIGN FOR STAGE AND SCREEN

(Formerly THAR 22A) 2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Concurrent Enrollment in THAR 25.4 OR Concurrent Enrollment in THAR 25.
Transferability: CSU;UC.
C-ID: THTR 175 Series
Description: Introduction to the materials and techniques of makeup design for stage, film, TV, and photography. Traditional and contemporary techniques of makeup application in both classroom and production environments.

THAR 22.1 SPECIAL EFFECTS MAKEUP, WIGS, AND MASKS

(Formerly THAR 22B) 2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Recommended: Course Completion or Concurrent Enrollment in THAR 2 AND THAR 22.
Transferability: CSU;UC.
Description: Methods, materials, and techniques realized in special effects design as it relates to theatrical makeup, including prosthetics, wig styling, and mask design and construction for stage, screen, and video.

THAR 22.2 SPECIAL EFFECTS MAKEUP, WIGS, AND MASKS II

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of THAR 22.1.
Transferability: CSU;UC.
Description: Additional methods, materials, and techniques realized in special effects design as it relates to theatrical makeup, including prosthetics, wig styling, and mask design and construction for stage, screen, and video.

THAR 23 INTRODUCTION TO SCENIC DESIGN

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Course Completion of THAR 1 and THAR 20.
Transferability: CSU;UC.
Description: An introduction to the means, methods, and materials utilized in designing scenery for the stage.

THAR 24 INTRODUCTION TO THE DESIGN PROCESS

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Course Completion or Concurrent Enrollment in THAR 1 OR THAR 2.
Transferability: CSU;UC.
C-ID: THTR 172
Description: An introduction to the collaborative process of theatrical design through hypothetical and/or actualized team projects in which students focus on one or more design areas (scenery, costume, lighting, sound, props, makeup and hair). The course covers all aspects of the design process, including script analysis, research methodology, conceptualization, and communication skills, as well as careers in theatrical design.

THAR 25 PRODUCTION LAB: GENERAL

1-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: Course Completion or Concurrent Enrollment in THAR 2.
Transferability: CSU;UC.
C-ID: THTR 192
Description: Practical experience in multiple theatrical production positions for public performances. Students in this course will work in two or more areas as a member of the construction crew, technical crews and/or house staff for one or more Theatre Arts productions during the semester.
4 Enrollments Total

THAR 25.1 PRODUCTION LAB: COSTUME CREW

1.5-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: Course Completion or Concurrent Enrollment in THAR 2.
Transferability: CSU;UC.
C-ID: THTR 192
Description: Practical experience as a member of the costume crew for public theatre performances. Students will complete crewing responsibilities during final rehearsals and performances for one to two Theatre Arts productions during the semester.
4 Enrollments Total

THAR 25.2 PRODUCTION LAB: RUNNING CREW

1.5-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: Course Completion or Concurrent Enrollment in THAR 2.
Transferability: CSU;UC.
C-ID: THTR 192
Description: Practical experience as a member of the running crew for public theatre performances. Students will complete crewing responsibilities during final rehearsals and performances for one to two Theatre Arts productions during the semester.
4 Enrollments Total

THAR 25.3 PRODUCTION LAB: HOUSE STAFF

0.5-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: Course Completion or Concurrent Enrollment in THAR 2.
Transferability: CSU;UC.
C-ID: THTR 192
Description: Practical experience as a member of the house staff for public theatre performances. Students will complete crewing responsibilities during final rehearsals and performances for one to two Theatre Arts productions during the semester.
4 Enrollments Total

THAR 25.4 PRODUCTION LAB: MAKEUP CREW

1.5-3 Units/Up to 9 hours by arrangement. Grade Only. Prerequisite: Course Completion or Current Enrollment in THAR 22 (or THAR 22A). Recommended: Course Completion or Concurrent Enrollment in THAR 2.
Transferability: CSU;UC.
C-ID: THTR 192;THTR 175 Series
Description: Practical experience as a member of the makeup crew for public theatre performances. Students will complete crewing responsibilities during final rehearsals and performances for one to two Theatre Arts productions during the semester.
4 Enrollments Total

THAR 25.5 PRODUCTION LAB: CONSTRUCTION

0.5-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: Course Completion or Concurrent Enrollment in THAR 2.
Transferability: CSU;UC.
C-ID: THTR 192
Description: Practical experience in constructing sets, properties, costumes, makeup/wigs, crafts and/or hanging/focusing lights for one or more theatrical productions for public performances. Area assignments will be made based on student interest and experience level (prior experience not necessary for most areas).
4 Enrollments Total

THAR 26 INTRODUCTION TO THEATRICAL LIGHTING

3 Units/2 hours lecture, 2 hours laboratory, 2 hours by arrangement. Grade Only. Recommended: Course Completion or Concurrent Enrollment in THAR 1 and THAR 20.
Transferability: CSU;UC.
C-ID: THTR 173
Description: An introduction to the basic concepts of theatre lighting, including hands-on instruction in the operation of stage lighting, planning, and rigging. Instruction in light sources, the theory of electricity in the theatre, color media and theory, lighting design, light plots, equipment, control systems, and rehearsal/performance procedures and operation.

THAR 27 PROPERTIES WORKSHOP

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Recommended: Completion or concurrent enrollment in THAR 2 (or THAR 301).
Transferability: CSU;UC.
Description: Introduction to the basic materials, techniques and creative process involved in the design and construction of stage properties, as well as historical and conceptual aspects of properties design. Class content will include development of properties for SRJC productions.

THAR 28 INTRODUCTION TO COSTUME DESIGN

3 Units/3 hours lecture. Grade Only. Recommended: Completion of THAR 1 and THAR 21A.
Transferability: CSU;UC.
C-ID: THTR 174
Description: The fundamentals of costume design for the stage, focusing on character interpretation, script analysis, and materials.

THAR 42 DANCE-THEATRE WORKSHOP

1-2 Units/Up to 3 hours laboratory, 3 hours by arrangement. Grade Only. Limits on enrollment: By audition during the first week of class.
Transferability: CSU;UC.
Description: The development of one or more dance-theatre pieces blending dance movement with overt theatrical elements such as spoken text, props, sets and theatrical costumes.The creative process will combine faculty choreography with collaborative work, resulting in a public performance (either a showcase or the annual dance concert). This course is intended for skilled performers in dance and/or theatre genres. May be performed in a non-traditional venue and/or include site-specific or multi-media work.

THAR 49 INDEPENDENT STUDY IN THEATRE ARTS

1-3 Units/Up to 9 hours by arrangement. Grade Only. Limits on enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.
Transferability: CSU;UC.
Description: Advanced, concentrated study in theatre appropriate to a student's own unique focus and circumstances, or in areas not covered by other courses in the curriculum. Involves seminars or individual conferences by arrangement to provide for independent study and enriched academic experience. UC determines credit AFTER transfer; not counted for admission. (See a counselor for details.)

THAR 50 INTRODUCTION TO THEATRE MANAGEMENT

3 Units/2 hours lecture, 2 hours laboratory, 1 hour by arrangement. Grade Only. Recommended: Course completion or Concurrent Enrollment in THAR 2 (or THAR 301).
Transferability: CSU.
Description: Introduction to the principles of management in the theatre, with an emphasis on practical stage management techniques, responsibilities, methods, tools, ethics and essential skills. Course work includes lectures, hands-on activities, computer-based assignments, and front-of-house management for one or more SRJC Theatre Arts productions.

THAR 50L THEATRE MANAGEMENT LABORATORY

1-3 Units/Up to 9 hours by arrangement. Grade Only. Recommended: Course Completion or Concurrent Enrollment in THAR 50.
Transferability: CSU.
Description: Practical experience in one or more areas of theatre management for public performances. Students apply and develop their managerial skills and knowledge within the context of a full Theatre Arts production.
4 Enrollments Total

THAR 63 ACTING IN FILM, TELEVISION AND VOICE-OVER

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of THAR 10A.
Transferability: CSU.
Description: A class designed to introduce the actor to the challenges of film, television, and voiceover acting, with additional focus of 21st century tools. Topics include: how to adjust the theatrical acting process for camera and microphone producing a web-ready acting demo reel for casting and self-promotion. Students will need access to a secure digital memory card as well as a smart phone, tablet, or other handheld device for recording and editing video.

THAR 81A OPERA AND RELATED FORMS IN PERFORMANCE 1

2-5 Units/Up to 15 hours by arrangement. Grade Only. Limits on enrollment: By Audition
Transferability: CSU.
C-ID: THTR 191
Description: Preparation and presentation of a role in an opera or related work (such as Broadway opera, light opera, pocket operas, and concert presentations) in production for public performance.
4 Enrollments Total

THAR 121.1 STAGE COSTUMING: INTRODUCTION TO HISTORICAL DRAPING

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Course Completion or Concurrent Enrollment in THAR 21A.
Description: Practical application of methods, materials, and techniques used in draping a pattern for historical costume construction, with emphasis on costume construction for a current Theatre Arts production.

THAR 121.2 STAGE COSTUMING: INTRODUCTION TO MILLINERY

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Course Completion or Concurrent Enrollment in THAR 21A.
Description: Practical application of methods, materials, and techniques used in millinery for theatrical production. Students will learn how to pattern buckram and pull felt hats while participating on millinery projects for a current Theatre Arts production.

THAR 121.3 STAGE COSTUMING: PERIOD CORSET CONSTRUCTION

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Course Completion of THAR 21A OR FASH 70A.
Description: Practical application of methods, materials, and techniques used in constructing a period corset for personal or theatrical use, with emphasis on historical costume construction for a current Theatre Arts production.

THAR 121.4 STAGE COSTUMING: TAILORING TECHNIQUES

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Course Completion of THAR 21A OR FASH 70A.
Description: Practical application of methods, materials, and techniques used in tailoring historical men's and women's coats and jackets, with emphasis on tailored costume construction for a current Theatre Arts production.

THAR 127.1 PROPERTIES WORKSHOP: FURNITURE AND UPHOLSTERY

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of THAR 27. Recommended: Completion or Concurrent Enrollment in THAR 2.
Description: This course provides intermediate instruction in the skills involved in the design and construction of

stage properties, with a focus on furniture, upholstery and soft goods construction skills. Students will work on focus-related projects, as well as properties for SRJC productions.

THAR 127.2 PROPERTIES WORKSHOP: MOLD MAKING AND CASTING

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of THAR 27. Recommended: Course Completion or Concurrent Enrollment in THAR 2.
Description: This course continues an introduction to the basic materials, techniques and creative process involved in the design and construction of stage properties, with a focus on theatrical mold making and casting skills. Students will work on focus-related projects, as well as properties for SRJC productions.

THAR 127.3 PROPERTIES WORKSHOP: FOAM CARVING AND FOOD PROPERTIES

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of THAR 27 (or THAR 77). Recommended: Course Completion or Concurrent Enrollment in THAR 2.
Description: This course provides intermediate instruction in the skills involved in the design and construction of stage properties, with a focus on theatrical food properties, foam carving, preparation and construction skills. Students will work on focus-related projects, as well as properties for SRJC production.

THAR 127.4 PROPERTIES WORKSHOP: WEAPONRY AND SPECIALTY ITEMS

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of THAR 27. Recommended: Course Completion or Concurrent Enrollment in THAR 2.
Description: This course provides instruction in the skills involved in the design and construction of stage properties, with a focus on theatrical weaponry and specialty props. Students will work on focus-related projects, as well as properties for SRJC productions.

VITICULTURE (VIT)

VIT 1 INTRODUCTION TO VITICULTURE, WINEMAKING, WINES OF THE WORLD

(Formerly VIT 50) 3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: Survey of world viticulture and wine industries. Course includes: history of viticulture; grapevine anatomy; worldwide grape and wine production and consumption; and world wine regions.

VIT 51 VITICULTURE: FALL PRACTICES

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Fall practices for wine grape production in the north coast region, including budding, grape maturity monitoring, harvesting, pruning, varietal selection and vineyard development.

VIT 52 VITICULTURE: SPRING PRACTICES

3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Viticulture practices for spring including vineyard establishment, training, pest control, soils, frost protection, irrigation practices, quality control measures and vineyard equipment use.

VIT 53 ADVANCED VINEYARD PRACTICES FOR QUALITY PRODUCTION

3 Units/3 hours lecture. Grade or P/NP. Recommended: Completion of VIT 52, and Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Course presents principles and cultural practices utilized in the vineyard to produce high quality North Coast wines. A thorough look at the practices of fertilization, irrigation, trellis design, and canopy management as they relate to wine quality factors. Includes lectures, guest speakers, and field trips to local vineyards and wineries.

VIT 54 VITICULTURE: SUMMER PRACTICES

1 Unit/1 hour lecture, 1 hour laboratory. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Viticulture practices for summer including pest and disease monitoring and management, weed control, crop load assessment, canopy assessment, vine water status measurements and fruit quality improvement techniques.

VIT 55 BASIC WINE GRAPE VITICULTURE

3 Units/3 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: An introduction to viticulture including history and development of the wine industry, grape growing, distribution, processes and factors affecting wine quality. Also covers biology, anatomy, propagation, cultivated varieties, rootstocks, climate, vineyard practices, and common diseases and pests. Provides basic information required to establish a wine grape vineyard in Sonoma County.

VIT 60 VINEYARD MANAGEMENT

3 Units/3 hours lecture. Grade Only. Recommended: Course Completion or Concurrent Enrollment in VIT 51 and VIT 52 and Course Eligibility for ENGL 100 OR ESL 100.
Transferability: CSU.
Description: Responsibilities of vineyard management including, diagnosis and correction of problems, vineyard development, financial projections and budgeting, labor contracting and supervision, and crop sale contracts.

VIT 70 VINEYARD PEST AND DISEASE MANAGEMENT

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Recommended: Course Completion or Concurrent Enrollment in VIT 55 AND Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: Examination of vineyard pests, diseases, and vectors; including their identification, life-cycles, specific monitoring and economic thresholds. Topics include: vineyard fungal, bacterial and viral diseases, insects, arthropods, nematodes, vertebrate pests, and weeds. Efficient, current and environmentally sound management strategies will be emphasized.

VIT 113 ORGANIC VITICULTURE

1.5 Units/1.5 hours lecture, 0.5 hour laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Examination of commercial organic wine grape production, investigating both theory and practical applications. Regional growing conditions will be emphasized. Topics include: assessment of a site's feasibility for organic production; appropriate choice of planting materials; soil fertility; biodiversity; ecologically sound pest and disease management; cost comparisons of organic production versus other methods.

VIT 114 SUSTAINABLE VITICULTURE

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Examination of commercial sustainable winegrape production, investigating both theory and practical applications. Regional growing conditions will be emphasized. Topics include: vineyard practices that promote environmental protection and resource conservation, economic viability and continuity, and social equity.

VIT 120 VINEYARD PRUNING

0.5 Unit/4.5 hours lecture for 2 weeks. Grade or P/NP.
Description: Theory and practice of pruning head, cane and cordon vines. Course emphasizes the grapevine's response to pruning, training young and mature vines, and introduces terminology and equipment.

VIT 121 PRUNING TECHNIQUES FOR VINE BALANCE

0.5 Unit/4.5 hours lecture for 2 weeks. Grade or P/NP.
Description: Concepts and techniques for pruning to promote wine grape vine balance.

VIT 122 VINEYARD CANOPY MANAGEMENT

(Formerly AG 281.21) 1 Unit/9 hours lecture for 2 weeks. Grade or P/NP. Recommended: Course completion of VIT 120.
Description: Latest techniques in developing trellising systems for winegrape production. Principles and practices of canopy management are covered, focusing on improving grape and wine quality.

VIT 123 SPRING BUDDING & GRAFTING

0.5 Unit/9 hours lecture for 1 week. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Spring season budding and grafting. Covers methods used to graft over rootstocks and in existing vineyards.

VIT 124 VINEYARD IRRIGATION AND FERTILIZATION

1 Unit/6 hours lecture for 3 weeks. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Soil types and irrigation requirements in the vineyard. Covers vineyard water and nutrition needs, water and fertilizer application techniques, and irrigation management for various rootstocks.

VIT 130 GRAPEVINE PHYSIOLOGY

1 Unit/4.5 hours lecture for 4 weeks. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: An advanced viticulture theory course that covers grapevine physiology and phenology. Topics include vine balance, flowering and fruit set, stages of berry growth, and vine water status. This course is designed for those working in the winegrape industry and already familiar with basic vineyard operations.

VIT 131 WORKING WITH YOUR WINEMAKER - FRUIT QUALITY ASSURANCE

1 Unit/9 hours lecture for 2 weeks. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: The primary aspects of winegrape quality improvement will be covered. The student will write a detailed plan to improve fruit quality in the vineyard, and then assess and evaluate the degree of improvement achieved. This short course also addresses enhancing communication skills between the grower and the winemaker and/or grape buyer.

VIT 132 ADVANCES IN VINEYARD INTEGRATED PEST AND DISEASE MANAGEMENT

0.5 Unit/0.5 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: This course encompasses critical evaluation and discussion of selected viticulture, plant pathology and entomology research papers. The papers will be recent publications in peer-reviewed journals. The intent is to broaden student experience and perspective beyond textbooks for understanding of new pest and disease management practices.

VIT 133 ADVANCES IN VITICULTURE

1 Unit/1 hour lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.
Description: This short course encompasses critical evaluation and discussion of selected viticultural research papers. The papers will be recent publications in peer-reviewed journals. The intent is to broaden student perspective beyond textbooks for understanding the most current vineyard practices that aim for efficiency and fruit quality improvement.

VOCATIONAL EDUCATION (VE)

VE 713 EMPLOYMENT TRANSITIONS

0 Unit/30 hours by arrangement. Non-Credit Course.
Description: This course prepares students with special needs for successful employment. The course emphasizes job readiness, job search fundamentals, and job retention skills. Classes include exploration of values and interests, preparing for a job interview, family support activities and career advancement strategies. Each student's learning is directed by an individualized plan. The course is offered in partnership with community agencies.
Exempt From Repeat Provisions

WASTE WATER TREATMENT (WWTR)

WWTR 112 MATH FOR WATER AND WASTEWATER TECHNOLOGY

3 Units/3 hours lecture. Grade or P/NP.
Description: Practical application of mathematical calculations for hydraulics, chemicals, and solids used in the design, operation, process control and maintenance of water and wastewater distribution systems and treatment facilities.

WWTR 120 WASTEWATER TREATMENT 1

(Formerly ENVT 120) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in WWTR 112. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: An introduction to wastewater treatment plant operations and the role of the operator. Topics covered include the origins and characteristics of wastewater, wastewater collection and treatment systems, and associated mathematical computations. Emphasis is given to the skills and knowledge necessary for the students to take the State of California's Wastewater Operator Certification examination Grade 1.

WWTR 121 WASTEWATER TREATMENT 2

3 Units/3 hours lecture. Grade or P/NP. Prerequisite: Course Completion of WWTR 120.
Description: Principles and techniques used in advanced/tertiary wastewater treatment including disinfection, chlorination, odor control, wastewater reclamation, advanced sludge treatment and disposal, laboratory control methods, and the National Pollution Discharge Elimination System (NPDES) discharge requirements, report writing and records. Preparation for State Water Resources Control Board (SWRCB) Wastewater Operator Certification Grade 2 exam.

WWTR 122 CHEMISTRY FOR WATER AND WASTEWATER TECHNOLOGY

3 Units/2 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Course Completion of WWTR 112 (or ENVT 112).
Description: This course will cover basic wastewater laboratory information, including chemical terms and symbols, equipment, sampling, safety, and quality assurance. Students will perform lab tests, including pH, dissolved oxygen, solids (settleable, suspended, total, volatile), sludge volume index, biological and chemical oxygen demand, alkalinity, hardness, turbidity, chlorine residual, and total coliform bacteria.

WWTR 123 INSTRUMENTATION AND CONTROLS

3 Units/2.67 hours lecture, 1 hour laboratory. Grade or P/NP. Recommended: Course Completion or Concurrent Enrollment in WTR 101.
Description: Applications and uses of water, wastewater, and industrial control systems including switches, relays, alarms, motors, transformers, test equipment, control systems, telemetering, and System Control and Data Acquisition (SCADA).

WWTR 124 PUMPS AND MOTORS

3 Units/2.75 hours lecture, 0.75 hour laboratory. Grade or P/NP.
Description: Basic theory of hydraulics and pumping systems, including operation, troubleshooting, maintenance and repair of pumps and pumping systems.

WWTR 125 INDUSTRIAL WASTE PRETREATMENT FACILITY INSPECTION

3 Units/3 hours lecture. Grade or P/NP.
Description: This course covers the roles and responsibilities of a pretreatment facility inspector, including development, application and implementation of regulations, inspection of typical industries, safety, sampling procedures for wastewater, wastewater flow monitoring, industrial wastewater composition, pretreatment and source control technology, industrial inspection procedures, emergency response, and pretreatment administration.

WATER TREATMENT (WTR)

WTR 101 INTRODUCTION TO WATER CAREERS

(Formerly ENVT 101) 1 Unit/1 hour lecture. Grade Only.
Description: Introduces the water cycle with focus on Sonoma County water resources and water needs. Explores local career opportunities in the fields of water treatment technology, water distribution technology, and waste water treatment technology.

WTR 110 WATER TREATMENT PLANT OPERATOR

(Formerly ENVT 110) 3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in WWTR 112.
Description: This course provides training in the knowledge and skills required to safely operate public drinking water treatment facilities. It assists students in preparation for operator certification examinations required by the State of California. It is designed for those students who wish to become water treatment plant operators and those operators who wish to upgrade their certification grade level.

WTR 111 WATER DISTRIBUTION SYSTEM OPERATOR

3 Units/3 hours lecture. Grade Only. Prerequisite: Course Completion or Current Enrollment in WWTR 112.
Description: This course provides training in the knowledge and skills required to safely operate a potable water distribution system. Course covers components of water distribution system facilities, flow in pipes, storage facilities, pumps, instrumentation and control, distribution system operation and maintenance, distribution system water quality, safety, and record keeping. Prepares students for the State of California certification examination for Water Distribution System Operator.

WELDING (WELD)

WELD 98 INDEPENDENT STUDY IN WELDING

1-6 Units/Up to 18 hours by arrangement. Grade Only. Limits on enrollment: Enrollment contingent upon approval of the project by supervising faculty, department chair, and supervisory administrator.
Transferability: CSU.
Description: Special projects by arrangement to provide for independent study and enriched academic experience in welding.

WELD 121 CREATIVE METALS

1 Unit/3 hours laboratory. Grade or P/NP. Recommended: Course Completion of WELD 70 or welding experience.
Description: A creative approach to welding and cutting various metals with numerous processes, including texturing, finishes and surface designs.

WELD 170 BEGINNING WELDING: FUNDAMENTALS OF ARC AND GAS WELDING

(Formerly WELD 70) 2 Units/1 hour lecture, 3 hours laboratory. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.

Description: This course provides a general overview of the fundamentals of arc and oxy-acetylene welding, and oxy-acetylene flame cutting. Topics will include safety, shop practices and preparation for AWS (American Welding Society) welding certifications.

WELD 171.1 ADVANCED SHIELDED METAL ARC WELDING

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of WELD 70. Recommended: Eligibility for ENGL 100 or ESL 100.

Description: All position welding utilizing Shielded Metal Arc Welding and Oxy-Acetylene Welding. Welding certification testing included.

WELD 171.2 GAS METAL ARC WELDING AND GAS TUNGSTEN ARC WELDING

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of WELD 70. Recommended: Eligibility for ENGL 100 or ESL 100.

Description: All position welding utilizing Gas Metal Arc welding (MIG) and Gas Tungsten Arc welding (TIG). Welding certification testing included.

WELD 171.3 FLUX CORE ARC WELDING (FCAW)

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of WELD 70. Recommended: Eligibility for ENGL 100 or ESL 100.

Description: All position welding utilizing Flux Core Arc Welding (FCAW) and Air Arc cutting. Welding certification testing included.

WELD 175A WELDING TECHNOLOGY 1

(Formerly WELD 75A) 6 Units/3 hours lecture, 9 hours laboratory. Grade Only. Prerequisite: Course Completion of WELD 70.

Description: A study of all aspects of welding processes for welding and related trades. Instruction includes cutting, gouging, welding symbols,TIG (Tungsten Inert Gas), MIG (Metal Inert Gas), and SMAW(Shielded Manual Arc Welding). Preparation for the AWS (American Welding Society) Limited Structural Certification test is included.

WELD 175B WELDING TECHNOLOGY 2

(Formerly WELD 75B) 6 Units/3 hours lecture, 9 hours laboratory. Grade Only. Prerequisite: Course Completion of WELD 175A.

Description: Advanced welding processes and fabrication techniques for welding and related trades. Includes SMAW (Shielded Metal Arc welding), MIG (Metal Inert Gas), TIG (Tungsten Inert Gas), and Innershield Welding. Students gain skills required to pass the Unlimited American Welding Society Structural Certification Test.

WINE STUDIES (WINE)

WINE 1 INTRODUCTION TO VITICULTURE, WINEMAKING, WINES OF THE WORLD

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 1A or equivalent.
Transferability: CSU;UC.
Description: Survey of world viticulture and wine industries. Course includes: history of viticulture; grapevine anatomy; worldwide grape and wine production and consumption; and world wine regions.

WINE 3 INTRODUCTION TO ENOLOGY

(Formerly WINE 53) 4 Units/3 hours lecture, 3 hours laboratory. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Must be age 18 or older
Transferability: CSU;UC.
Description: An introduction to the process and science of winemaking, including history, with an emphasis on the California industry.

WINE 42.1 FALL WINERY OPERATIONS

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Must be age 18 or older
Transferability: CSU;UC.
Description: Operations of a commercial winery for the fall season, including grape maturity monitoring, grape harvesting and crushing, fermentation, and handling and storage of new wines. Includes general cellar practices.

WINE 42.2 SPRING WINERY OPERATIONS

2 Units/1 hour lecture, 3 hours laboratory. Grade Only. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 1A or equivalent. Limits on enrollment: Must be age 18 or older
Transferability: CSU;UC.
Description: Operations of a commercial winery for the spring season including handling and storage of new wines, maintenance of wines from previous vintages, general cellar practices, and applied wine microbiology.

WINE 55 LAB ANALYSIS OF WINES

(Formerly WINE 55A) 3 Units/2 hours lecture, 3 hours laboratory. Grade Only. Prerequisite: Course Completion of CHEM 1A OR CHEM 8 OR CHEM 42 OR CHEM 60.
Transferability: CSU.
Description: An introduction to winery laboratory practices including basic chemistry principles, laboratory techniques, and commonly used analysis methods for musts and wines.

WINE 56 INTRODUCTION TO AGRICULTURE BUSINESS AND MANAGEMENT

3 Units/3 hours lecture. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100.
Transferability: CSU.
Description: This course provides an overview of the business and economic aspects of the agriculture industry.

Introduction to the economic aspects of agriculture and the implications for consumers and other sectors of the food system. Principles of management and decision-making in agribusiness.

WINE 62 AGRICULTURAL SALES AND COMMUNICATION

3 Units/3 hours lecture. Grade Only. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be age 18 or older
Transferability: CSU.
Description: This course involves the study of principles and practices of the selling process: selling strategies and approaches, why and how people buy, prospecting, territory management, and customer service. Self management, communication, and interpersonal skills necessary in developing managerial abilities, leadership qualities, and facilitating teamwork within the agribusiness sector will be explored. The course content is organized to give students an in depth understanding of the factors and influences that affect the agribusiness industry on a day-to-day basis.

WINE 70 BEGINNING WINE SENSORY ANALYSIS

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Course Completion of VIT 1 OR WINE 1; AND Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Age 18 or older
Transferability: CSU.
Description: An introductory wine sensory course designed to expose students to a broad range of wine varietals and wine styles and to develop wine tasting expertise useful at all levels of the wine industry. Course includes tasting many Sonoma County wines, learning basic tasting techniques, and an introduction to the fermentation process. Students should bring six matching wine glasses to every class session.

WINE 101 WINE SALES

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Course Completion of WINE 1 OR VIT 1; and WINE 3.
Description: This class examines the business of wine sales and distribution, reviewing the role of brokers and distributors. Topics will include the costs of distribution including margins, mark-ups, freight and taxes. Regional market variation is covered including the differences between retail and restaurant sales. This course covers import and export of wines.

WINE 102 WINE MARKETING

(Formerly AG 177) 1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100; AND Course Completion of WINE 1 (or VIT 1) AND WINE 3.
Description: A practical approach to marketing wine. Includes market analysis, planning, the development of a marketing plan, and strategies for successful product placement and sales.

WINE 103 WINE DIRECT TO CONSUMER SALES

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of WINE 1 OR VIT 1; and WINE 3.
Description: An introduction to and overview of the sales and marketing of wine and the winery directly to consumers. The course will include information on special events, creation and management of wine clubs, tourism, building connection with customers and internet marketing. The focus is strictly on the aspects of marketing and selling wine directly to consumers.

WINE 105 WINE PUBLIC RELATIONS

(Formerly AG 175.2) 1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of VIT 1 OR WINE 1.
Description: Course covers the essentials of effective promotion and sales of wine to consumers and the trade. Includes image creation, communication skills, media usage, special event staging, preparing a public relations (PR) plan, writing PR materials and social media communications.

WINE 109 WINE CLUB CREATION, MAINTENANCE AND PROMOTION

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 100 or ESL 100.
Description: Course covers the essentials of creating and maintaining a wine club, including club infrastructure; traditional and social media communication with members; hosting club events; preparing marketing and public relations plans and materials.

WINE 110 ADVANCED WINE SENSORY ANALYSIS

(Formerly AG 170) 1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Course Completion of WINE 70 and Course Completion of WINE 1 OR VIT 1; AND Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be 18 years or older
Description: Professional wine competition organization, methodology, and awards. Critical evaluation of selected varietal wines with regard to wine judging competitions hosted by professional wine judges. An advanced sensory course for wine industry personnel and trade. Students should bring six matching wine glasses to every class session.

WINE 111.1 SONOMA AMERICAN VITICULTURE AREAS-NORTH COUNTY

(Formerly WINE 111) 1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Minimum Age 18 or older
Description: This class is an investigation of Northern Sonoma County's winegrowing regions. The most important American Viticulture Areas (AVA) of Northern Sonoma County and the wines they produce will be examined in detail. Sensory evaluation of selected wines from each region will be explored. Northern Sonoma County winery guest presentations and field trips are a major component of this class. Students should bring six matching wine glasses to every class session.

WINE 111.2 SONOMA AMERICAN VITICULTURE AREAS-SOUTH COUNTY

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Minimum Age 18 or older
Description: This class is an investigation of Southern Sonoma County's winegrowing regions. The most important American Viticulture Areas (AVA) of Southern Sonoma County and the wines they produce will be examined in detail. Sensory evaluation of selected wines from each region will be explored. Southern Sonoma County winery guest presentations and field trips are a major component of this class. Students should bring six matching wine glasses to every class session.

WINE 112 WINE REGIONS OF CALIFORNIA

(Formerly AG 174) 1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Limits on enrollment: Must be 18 years or older
Description: This class is an investigation of California winegrowing regions outside of Sonoma County. Diverse wine areas beyond Sonoma will be covered, including the counties of Napa, Mendocino, Amador, El Dorado, Santa Cruz, Monterey, San Luis Obispo, and Santa Barbara.

WINE 113 WINEMAKERS OF SONOMA COUNTY

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Limits on enrollment: Must be 18 years or older

Description: A series of discussions and tastings of major wine varietals of Sonoma County, their styles and characteristics. Course will look at Sonoma County's position and place in the United States and foreign markets from a wine quality and wine varietal prospective. Winemakers of Sonoma County will participate as guest speakers.

WINE 114 WINES OF CALIFORNIA AND EUROPE

(Formerly AG 173) 1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 100 or ESL 100.

Description: An introductory examination of the most famous wines of Europe contrasted with their California counterparts. Course will examine a different grape or related group of grapes and their expression on both sides of the Atlantic. Previous experience with wine is helpful but not necessary.

WINE 116 WINES OF ITALY

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be 18 years or older

Description: An introductory examination of the major wine regions of Italy, grape varietals grown there, and the wines produced. This course will also explore the importance of wine in Italian cuisine and culture and the stature Italian wines have achieved worldwide.

WINE 117 WINES OF FRANCE

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be 18 years or older

Description: An introductory examination of the wines of France. Each week, this course will examine a different region and related grape or group of grapes and the resulting wine(s).

WINE 118 ZINFANDEL-GRAPE TO GLASS

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be 18 years or older

Description: An examination of Zinfandel--from growing the grape to the wine in the glass. In this intensive course, we will consider and taste the diversity of Zinfandel wine styles from the major Zinfandel producing areas of California.

WINE 119 AN EXAMINATION OF PINOT NOIR

1.5 Units/3.5 hours lecture for 8 weeks. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be 18 years or older

Description: An examination of Pinot Noir--from growing the grape to the wine in the glass. This intensive course will consider and taste the diversity of Pinot Noir wine styles from the most important regions of California, Oregon, Europe and the southern hemisphere.

WINE 121 WINES OF SPAIN

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Limits on enrollment: Must be 18 years or older

Description: An introductory examination of the major wine regions of Spain, grape varietals grown there, and the wines produced. This course will also explore the importance of wine in Spanish cuisine and culture and the stature Spanish wines have achieved worldwide.

WINE 123 CAUSATION AND DETECTION OF WINE FAULTS

1 Unit/1 hour lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 100 or ESL 100 and Course Completion of WINE 1 OR Course Completion of VIT 1. Limits on enrollment: Must be 18 years or older

Description: An introductory wine sensory course designed to teach basic analytical wine tasting techniques and expose students to the causes and effects that result in flaws and faults in wine. Curriculum covers sensory physiology, analytical tasting, and the basic chemistry and microbiology of winegrowing and winemaking practices that result in wine defects. The course offers coaching to support mastery of individual sensory thresholds and develops wine sensory expertise that is useful at all levels of the wine industry.

WINE 124 CABERNET SAUVIGNON AROUND THE WORLD

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Limits on enrollment: Must be 18 years or older

Description: This class is an examination of Cabernet Sauvignon and the wines in which it plays a key role around the globe. While this grape is noted prominently on many wine labels, it often plays an important incognito role in the most famous Bordeaux-style blends. In this intensive course, we study and taste a diversity of wine styles from the United States, Europe and the southern hemisphere.

WINE 125 NAPA VALLEY APPELLATIONS

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Limits on enrollment: Must be 18 years or older

Description: This class is an investigation of Napa Valley's winegrowing regions. In this intensive course, students will study and taste a diversity of wine styles from each of Napa's appellations.

WINE 127.1 WINE COMPLIANCE - LICENSING

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.

Description: The course will cover required federal Alcohol and Tobacco Tax and Trade Bureau (TTB) and California licensing requirements for wineries, wine wholesalers and wine importers. Information covered will include the required documents and information for each type of application, the application process, what to expect in review and what to plan for upon approval of the licenses.

WINE 127.2 WINERY COMPLIANCE - REQUIRED RECORDKEEPING AND REPORTING

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent.

Description: The course will cover the records and reports that US wineries are required to maintain and file. Information covered will include review of the different winemaking record types & the required reports. Primary focus will be on federal Alcohol and Tobacco Tax and Trade Bureau (TTB) requirements but will also cover California reporting requirements for Alcohol and Beverage Control (ABC); Board of Equalization (BOE); and California Department of Food and Agriculture (CDFA).

WINE 128 DEVELOPING AND MAINTAINING WINE SOCIAL MEDIA CAMPAIGNS

1.5 Units/1.5 hours lecture. Grade or P/NP. Recommended: Eligibility for ENGL 1A or equivalent and CS 57.11 and Course Completion of VIT 1 OR Course Completion of WINE 1.
Description: Learn to build a team to create an effective social media campaign. Learn to use all major social media platforms to promote wine, winery events, and wine brands. Learn basics of wine branding and how to identify target audiences for wine social media campaigns. Learn to develop metrics for measuring effectiveness of wine social media campaigns and how to integrate social media campaigns into existing wine marketing strategies.

WINE 130 WINE SERVICE AND HOSPITALITY

1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be 18 years or older
Description: A comprehensive exploration of wine service covering the pragmatic concerns of selecting, serving, decanting, storing, transporting, handling and displaying wine in restaurant, tasting room, and private venues. Appropriate for hospitality professionals and wine aficionados.

WINE 131 WINE INDUSTRY EVENT PLANNING

(Formerly AG 178) 1.5 Units/1.5 hours lecture. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Course Completion of WINE 1 OR VIT 1. Limits on enrollment: Minimum Age 18 or older. Students will be tasting wine in this course. Legal Age requirement for the Sip and Spit Law is minimum age of 18.
Description: An introduction to planning, organizing, and managing wine industry events. Students will gain practical as well as classroom experience by participating in the organization and execution of a public wine tasting.

WINE 150 ARTISAN WINEMAKING OPERATIONS

2 Units/1.5 hours lecture, 1.5 hours laboratory. Grade or P/NP. Prerequisite: Minimum Age 18 or older. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Must be 18 years or older
Description: This course covers the basic production methods, wine chemistry and microbiology necessary for the production of professional quality wine in an artisan winery.

WORK EXPERIENCE - GENERAL (WRKEX)

WRKEX 97 GENERAL WORK EXPERIENCE

0.5-6 Units/Up to 25.75 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Students must have a job in a licensed business to qualify for General Work Experience. Units earned are based on hours worked during the semester.
Transferability: CSU.
Description: General Work Experience is supervised employment intended to assist students in acquiring desirable work habits, attitudes, and career awareness. The student's employment need not be related to the student's educational goals.
16 Units Total (WrxEx only)

WORK EXPERIENCE - OCCUPATIONAL (WEOC)

WEOC 99 OCCUPATIONAL WORK EXPERIENCE

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Students must have a job in a licensed business that is directly related to their educational or occupational goal. Units earned are based on hours worked during the semester.
Transferability: CSU.
Description: Occupational Work Experience is supervised employment of students that extends classroom learning to the job site and relates to the student's educational or occupational goal. The course is for students who work in a job that is related to their chosen course of study.
16 Units Total (WrxEx only)

WEOC 99I OCCUPATIONAL WORK EXPERIENCE INTERNSHIP

0.5-8 Units/Up to 34.5 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Students must complete an application, interview, placement, and verification of employment because intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Occupational Work Experience Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; and prospective internship placement. Upon placement, the student begins supervised employment that extends classroom learning into the work environment. Students eligible for internships will have declared a major, have completed courses in their major, or have acquired a high level of skill in their discipline, and are ready for on-the-job experience in a paid position. Students will acquire new knowledge, skills, and abilities to prepare for a career in their chosen field.
16 Units Total (WrxEx only)

WEOC 99IU WORK EXPERIENCE INTERNSHIP UNPAID

0.5-8 Units/Up to 27.5 hours by arrangement. Grade Only. Recommended: Eligibility for ENGL 100 or ESL 100. Limits on enrollment: Student must complete an interview, placement and verification of employment because the intern position must be secured prior to enrollment.
Transferability: CSU.
Description: Occupational Work Experience Internship offers job readiness preparation; job seeking and coaching; application, resume, and interviewing instruction; screening; and prospective internship leads. Upon placement, the student begins supervised employment that extends classroom learning into the work environment. Students eligible for internships will have declared a major, have completed courses in their major, or have acquired a high level of skill in their discipline, and are ready for on-the-job experience in an unpaid position. Students are expected to perform 60 hours of internship time for each unit of course credit. Students will acquire new knowledge, skills, and abilities to prepare for a career in their chosen field.
16 Units Total (WrxEx only)

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BOARD OF TRUSTEES

Expiration of term is indicated in parentheses following each name.

- Jordan Burns, President (November 2022)
- Dorothy Battenfeld, Vice President (November 2022)
- Mariana Martinez, Clerk (November 2020)
- Donald S. Edgar (November 2020)
- Maggie Fishman (November 2022)
- Jeff Kunde (November 2022)
- W. Terry Lindley (November 2020)
- Daniel Pablo, Student Trustee (May 2020)

ADMINISTRATION

Questions or comments about the staff directory may be sent to: Gina Waggoner, **gwaggoner@santarosa.edu (mailto:gwaggoner@santarosa.edu)**

Updated May 1, 2019

Joshua Adams, Dean, Business & Professional Studies
A.A., General Studies, Santa Rosa Junior College; B.S., Accounting, Columbia College; MBA, Business Administration, Columbia College, M.A., Information Technology, American Military University. FSA: Business, Computer Studies, Work Experience

Charisse Arnold, Associate Dean, Public Safety/In-Service Programs
B.S., Social Sciences, California State University, San Luis Obispo; M.P.A., Public Administration, University of San Francisco. FSA: Administration of Justice, Public Administration/Political Science

Pedro Avila, Vice President Student Services/Assistant Superintendent
B.S., Business Administration, California State University, Fresno; M.B.A., Rockhurst University

Lisa Beach, Director, Distance Education
B.S., Business Administration, California Polytechnic State University, San Luis Obispo; M.B.A., Business, Sonoma State University; M.S., Education-Online Teaching and Learning, California State University, East Bay.

Genevieve Bertone, Director, Student Equity & Persistence
B.A., Ethics & Religion, University of Oklahoma; M.A., Urban Planning, University of California Los Angeles; Ed.D., Educational Leadership, California State University, Northridge.

Michelle Booher-Poggi, Director, Student Outreach
A.A., Home Economics, Solano Community College; B.A., Home Economics, California State University, Sacramento.

Erin Bricker, Director, District and Community Relations
B.A., English Language and Literature and Psychology, University of Virginia

Lanny Brown, Associate Dean, Public Safety/Basic Academy
A.S., Administration of Justice, College of Marin; B.A., Organizational Behavior, University of San Francisco; M.A., Leadership, St. Mary's College.

Robert Brownlee, Police Chief, District Police
A.A., Liberal Arts, University of Phoenix; B.S., Organizational Behavior and Leadership; University of San Francisco.

April Chapman, Senior Dean, Public Safety
A.A., General Studies, Santa Rosa Junior College; B.A., Management, St. Mary's College; M.A., Psychology, Sonoma State University. FSA: Administration of Justice, Paralegal Studies

Heather Chierici, Project Manager (Measure H), Capital Projects
B.A., English-Writing, University of West Florida, Pensacola Florida

Frank Chong, President/Superintendent
B.A., Social Welfare and Asian American Studies; M.P.A., Public Administration, Harvard University; Ph.D., Educational Administration, Leadership and Technology, Dowling College.

Linda Close, Manager, Accounting (Interim)

Li Collier, Senior Dean, Counseling and Student Success
B.S., Mechanical Engineering, Shanghai Jiao Tong University; M.S., Mechanical Engineering, University of California, Santa Barbara; M.B.A., National University

Randy Collins, Associate Dean, Public Safety/Fire Technology
A.S., Fire Technology, Mission College; B.A., Industrial Arts, California State University, Arcata
Twenty-three (23) years full and part-time teaching and vocational experience at: City of Healdsburg, Healdsburg, CA; and Santa Rosa Junior College.
Christie Colón, Human Resources Specialist Benefits (Confidential), Human Resources
Human Resources Administration Certificate, Santa Rosa Junior College; B.A., Journalism with minor in Anthropology, San Diego State University.

Scott Conrad, Senior Director, Information Technology
B.S., Industrial Engineering, University of Wisconsin; M.B.A., Information Systems, University of Minnesota; M.S., Management of Technology, National Technological University, Ed.D, Organizational Leadership, Brandman University

Denise Cooper, Manager, Admissions & Enrollment Services, Petaluma
B.A., Psychology, Sonoma State University; M.A., Counseling Psychology (MFT), University of San Francisco

Jana Cox, Director, Student Financial Services
B.A., Organizational Leadership, Chapman University; M.A., Human Resources, Chapman University

Rachael Cutcher, Manager, Student Financial Services
B.A., Communication Studies, Sonoma State University; Development Director Certificate, University of San Francisco

Bradford Davis, Dean, Workforce Development
A.A., Business, Santa Rosa Junior College; B.S., Business Management, Sonoma State University; M.A., Educational Leadership, Concordia University. FSA: Work Experience, Agriculture/Natural Resources, Business

Hector Delgado, Manager, Southwest Santa Rosa Center
B.S., Physical Education, California State University, Sacramento; M.A., Counseling Psychology; University of San Francisco; Pupil Personnel Services Credential.

Deepa Desai, Manager, Payroll
A.S., Business Administration, Mendocino College

Brenda Dixon, Executive Assistant, Human Resources (Confidential)
A.A., Social & Behavioral Sciences, Santa Rosa Junior College

Tina Dodson, Director, Workforce Programs & CTE Grants/Career & Technical Education and Economic Development
B.A., Psychology, San Jose State University; M.A., Education Counseling, San Jose State University

Jeannie Dulberg, Director, Health Occupations Preparation and Educational Program (HOPE)
A.A., Forestry/Recreation, Santa Rosa Junior College; B.A., Recreation Administration, California State University, Chico; M.A., Counseling, Sonoma State University

Bert Epstein, Manager, Student Health Services-Mental Health Programs
B.A., Political Economy of Industrial Societies, University of California, Berkeley; M.A., Clinical Psychology, Alliant International University; PsyD, Clinical Psychology, Alliant International University.

Robert Ethington, Senior Dean of Students, Student Life, Equity & Engagement
B.E.S., Educational & Counseling Psychology, University of Missouri; M.S., Student Affairs in Higher Education, Colorado State University. FSA: Guidance/Counseling

Dan Exelby, Manager, IT Infrastructure
B.A., Liberal Studies, Sonoma State University

Karen C. Furukawa-Schlereth, Vice President, Human Resources
B.A. Psychology, University of California, Santa Barbara; M.P.A. California State University, Long Beach

Marlyn Garcia, Manager, Adult Education
A.A., Transfer Studies, Santa Rosa Junior College; B.A., Psychology, San Diego State University; M.A., School Counseling, Cal Poly, San Luis Obispo

Mengistab Gebre, Acting Supervisor, Custodial Services/Facilities Operations
A.S., Santa Rosa Junior College

Benjamin Goldstein, Dean, Agriculture, Natural Resources & Culinary Arts
B.A, Interdisciplinary Studies/Agriculture & Natural Resources; M.A., International Affairs & Sustainable Development, The American University; M.A., Natural Resources and Sustainable Development, University for Peace.

KC Greaney, Director, Institutional Research
B.A., History/Spanish, University of California, Berkeley; M.A., US History. University of California, San Diego; M.A., Ph.D., Higher Education and Organizational Change, University of California, Los Angeles

Robert Holcomb, Dean, Language Arts & Academic Foundations
B.A., Spanish, University of Southern California, Los Angeles; M.A., TESOL, University of Southern California, Los Angeles; Ph.D., Education, Claremont Graduate University. FSA: English as a Second Language, English, Modern & Classical Languages, College Skills

Sarah Hopkins, Director, Human Resources
B.A., Business Management, Sonoma State University

Lisa Hotchkiss, Payroll Analyst (Confidential)
60 Units towards Associates Degree

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B.S., Social Work, California State University, Sacramento; M.A., Education, California State University, Sacramento

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B.A., Psychology/English, Hunter College; M.S.W., Social Work, Stony Brook University

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B.A., Physical Education, Westmont College; M.A., Education, University of California, Santa Barbara

Kat Lewis, Manager, Petaluma Business Services
B.S., Financial Management & International Management, Cal Poly, San Luis Obispo

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B.S., Environmental Studies and Planning/Energy Management and Design, Sonoma State University

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B.A., Liberal Arts, Evergreen State College; M.F.A., Studio Art, San Francisco State University.

Matthew Long, Dean, Student Services, Petaluma
B.A., History & Spanish, Willamette University; M.A., Counseling & Personnel Services/College Student Personnel, University of Maryland; PhD., Educational Leadership in Higher Education, Johnson & Wales University

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B.A., Psychology, California State University, Sacramento; M.A., Clinical Psychology, John F. Kennedy University

Matt Markovich, Dean, Kinesiology, Athletics & Dance/Athletics Director
B.A., Physical Education, Sonoma State University; M.A., Health Physical Education and Recreation; St. Mary's College

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B.S., Engineering, United States Coast Guard Academy; M.S., Education, Indiana University

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B.S., Earth Science/Geology

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B.A., Theology/Communications, Grove City College; M.S., Organizational Leadership, Geneva College

Jerald P. Miller, Senior Dean, Career & Technical Education & Economic Development
B.S., California State University, Fresno, Surveying and Photogrammetry; Licensed Professional Land Surveyor. M.Ed., Career and Technical Education, Concordia University FSA: Applied Technology

Nancy Miller, Director, Regional Adult Education Programs
B.A., Political Science, Sonoma State University

Rachel Minor, Museum Supervisor/Curator SRJC Multi Cultural Museum
B.A., Art, Humboldt State University

Sumita Mukherjee, Project Manager (Measure H), Capital Projects
Professional Bachelor's Degree, Architecture, Illinois Institute of Technology, Chicago, Illinois

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B.A., International Studies and Public Policy and Service, Albion College; M.B.A., Business Administration, Hope International University

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B.A., Theatre Arts, California State University, San Bernardino, CA

Freyja Pereira, Dean, Admissions, Records & Enrollment Management
AA Santa Rosa Junior College; B.S., Organizational Behavior, University of San Francisco; M.A., Counseling Psychology, University of San Francisco

Steven Potter, Police Sergeant (Non-Exempt)
A.A., Behavioral Science, Santa Rosa Junior College; B.S., Criminal Justice Management, Union Institute and University

Catherine Prince, Dean, Instruction & Strategic Program Development
A.A., Mathematics, Sacramento City College; B.A., Psychology, Sacramento State University; M.A., Education, Sacramento State University

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B.S., Recreational Administration, California State University, Chico; M.A., Curriculum and Instruction, California State University, Stanislaus; Ed.D., Educational Leadership, California State University, Stanislaus

Javier Rodriguez Aguilera, Manager, Custodial and Facility Use Services
Sixteen (16) years of full-time experience at: University of California, Berkeley, CA; University of California, Merced, CA; and University of California, Santa Cruz, CA.

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B.S., Liberal Studies, Humboldt State University; M.A., Social Work, California State University, Sacramento

Mike Roth, Manager, Instructional Computing
Computer Support Specialist, Empire College; B.A., Psychology, University of Vermont; M.A., Religion, Temple University; M.A., Social Work, Adelphi University

Jane Saldaña-Talley, Interim Vice President, Academic Affairs
B.A, Psychology, Fresno State University, M.A., Psychology, Fresno State University; Ed.D., Educational Leadership, University of California, Davis

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B.A., Communications/Public Relations, Arizona State University; M.B.A., Business Administration, Columbia College

Vayta Smith, Director, Admissions & Enrollment Services
A.A., General Studies, Santa Rosa Junior College; B.A., American Multicultural Studies, Sonoma State University
Kevin Snyder, Manager, Network Security, Information Technology
A.A., General Studies, Santa Rosa Junior College; B.A., Music, University of California, Santa Barbara

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B.A., Sonoma State University, School of Expressive Arts

Kimberly Starke, Dean, Disabled Student, Programs, and Services, Disability Resources
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FSA: Disability Resources

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Victor Tam, Dean, Science, Technology Engineering, & Mathematics
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A.A., Liberal Arts/Business, Columbia College; B.A., Business/Accounting, Ashford University; M.B.A, Business Administration, Liberty University

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B.F.A., Sculpture, Rhode Island School of Design; M.F.A., Fine Arts, University of the Arts, Philadelphia; M.A., Early Childhood Education, Ashford University

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B.A., Management, Sonoma State University

Catherine Williams, Dean, Instruction & Enrollment Management, Petaluma
B.A., Psychology, Dominican College; M.A., Child & Family Psychology, California School of Professional Psychology; PhD., Clinical Psychology, California School of Professional Psychology. FSA: Disabled Students Programs & Services, Behavioral Sciences

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A.S., Chemistry, Santa Rosa Junior College; B.S., Fermentation Science, University of California, Davis.

Greg Wycoff, Supervisor, Technical Services/Media Services
A.A., Electronics Technology, Napa Valley College

Hilleary Zarate, Manager, Student Life & Engagement Programs
Human Resources Management Certificate, Santa Rosa Junior College; B.A., Sociology, San Francisco State University

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B.A., Business Management, Sonoma State University

FACULTY

Questions or comments about the staff directory may be sent to: Gina Waggoner, **gwaggoner@santarosa.edu (mailto:gwaggoner@santarosa.edu)**

Updated May 1, 2019

Susana Ackerman, World Languages
B.A., Spanish/Psychology, York University; M.A., Spanish, University of Illinois. FSA: Foreign Languages, English

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B.A., Psychology, University of California, Berkeley; M.A., Special Education, Sonoma State University. FSA: Disabled Students Programs & Services

Andrea Alvarado, Counseling
B.A., Psychology, University of California, San Diego; M.S., Counseling, San Francisco State University. FSA: Counseling

Roberto Alvarado, Counseling
B.A., Social Welfare, University of California, Berkeley; M.S.W., Social Work, San Jose State University. FSA: Counseling

Mark Anderman, Music
B.A., Music, California State University, Long Beach; M.A., Music, San Francisco State University; D.M.A., Music Education, Boston University. FSA: Music

Joe Anderson, Administration of Justice
B.A., Political Science, University of California, Davis; J.D., Rutgers University. FSA: Administration of Justice

Brian Antonson, Communication Studies/Media Studies & Digital Filmmaking
B.A., Film & Video, University of Notre Dame; M.A., Media Ecology, New York University. FSA: Communication Studies

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B.A., Philosophy, Sonoma State University; M.A., Philosophy, Boston University. FSA: Philosophy

Jocelyn Arild, Counselor/Disabled Students Programs and Services
B.A., Women's and Gender Studies/Sociology; M.A., English, Sonoma State University; M.S., Counseling Psychology/Marriage and Family Therapy, Dominican University of California. FSA:
Disabled Students Programs & Services

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Laura Aspinall, Disability Resources
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Smita Avasthi, Public Services Librarian, Learning Resources
B.A., English, Lewis & Clark College; M.L.I.S., University of Washington; M.A., English, University of Oregon, Ph.D., English, University of Oregon. FSA: Library Science

Filomena Avila, Guidance/Counseling
B.A., Liberal Studies, UC Santa Barbara; M.S.W., San Jose State University. FSA: Guidance/Counseling

Gale Bach, Mathematics
B.A., Mathematics, University of California, Los Angeles; M.A., Education, Stanford University; M.A.T., The University of Idaho. FSA: Mathematics

Allison Baker, History/Social Sciences/Petaluma
B.A., History, Brown University; M.A., History, University of Pennsylvania; PhD, History, University of Pennsylvania. FSA: Social Sciences

Barbara Barajas, Counseling/Bilingual
A.A., Liberal Studies, Oxnard Community College; B.A., Spanish, California State University Los Angeles; M.S., Counseling & Guidance, California Lutheran University. FSA: Counseling

Anne Belden, Communication Studies
B.A., Communication Studies, University of California, Los Angeles; M.A. Communication Studies, Stanford University. FSA: Communication Studies

Jody Benecke, Music
B.M., Vocal Performance, Northwestern University; M.M. Vocal Performance, Northwestern University. FSA: Music

Jeanette Ben Farhat, Social Sciences
B.A., Social Science, California State University, San Francisco; M.A., Political Science, University of California, Berkeley. FSA: Social Science

Joshua Beniston, Sustainable Agriculture
B.A., Plant Biology, Ohio University; M.S., Environment and Natural Resources, Ohio State University; Ph.D., Environment and Natural Resources, Ohio State University. FSA: Agriculture/Natural Resources

Vincent E. Bertsch, Engineering and Applied Technology Department
B.S., Mechanical Engineering, Stanford University; M.S., Electrical and Computer Engineering, University of California, Santa Barbara. FSA: Engineering, Physics, Applied Technology

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B.S., Biology, Pennsylvania State University; M.S., Exercise Physiology, Pennsylvania State University; Sc.D., Environmental Health Sciences (Physiology). FSA: Biological Sciences

Marc Bojanowski, English
B.A., English, University of California, Berkeley; M.F.A., Creative Writing, The New School. FSA: English

Bita Bookman, English as a Second Language
M.Ed., TESOL, Framingham State University. FSA: English as a Second Language

Anna Brown, Mathematics/Petaluma
B.A., Anthropology, University of California, San Diego; M.A., Mathematics, San Francisco State University. FSA: Mathematics

Shawyn Brumbaugh, Biological Sciences
B.S., Conservation & Resource Studies, University of California Berkeley; PhD, Biology Sciences, University of Texas. FSA: Life Sciences

Rudolf Budginas, Music/Coordinator of Piano & Digital Audio
M.M., Piano Performance, University of Southern California, Los Angeles; D.M.A., Music, University of Southern California, Los Angeles. FSA: Music

Kirby Bunas, Mathematics
B.A., Mathematics, UC Berkeley; M.A., Mathematics, UC Santa Cruz. FSA: Mathematics

Catherine Burgett, Culinary Arts
B.A. French, Stanford University. FSA: Culinary Arts

Lacey Campbell, Kinesiology, Athletics and Dance
B.S., Kinesiology, Sonoma State University; M.S., Coaching, United States Sports Academy.
FSA: Physical Education

Jennifer Carlin-Goldberg, Mathematics
B.A., Mathematics, Sonoma State University; M.A., Mathematics, San Francisco State University; Ph.D., University of California, Santa Cruz. FSA: Mathematics

James Cason, Culinary Arts
A.S., Culinary Arts, Central Piedmont Community College
FSA: Culinary Training

Jennifer Castello, Health Sciences
B.S., Nursing, University of San Francisco; M.S., Nursing Informatics, University of San Francisco. FSA: Health Sciences

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A.A., General Studies, Santa Rosa Junior College; B.A., English, University of California Berkeley. FSA: English

Sheryl Cavales Doolan, English
A.A., General Education, Santa Rosa Junior College; B.A., English, Sonoma State University; M.A., English, Sonoma State University. FSA: English

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B.A., Communicative Disorders, San Francisco State University; M.S., Speech Pathology, San Francisco State University; E.D. Educational Leadership, UC Davis. FSA: Disabled Students Programs & Services

Jeff L. Clark, Mathematics
B.S. Applied Math Sonoma State University; M.S. Applied Math California State University Hayward. FSA: Mathematics

Karen Clark, Nursing
A.D.N., Napa Valley College; B.S.N., Sonoma State University; M.S.N., Sonoma State University
FSA: Health Sciences

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B.A., History, California State University, Sacramento; M.A., History, California State University, Sacramento. FSA: History

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A.A., College of the Redwoods; B.A., Speech Communication, California State University at Humboldt; M.A., Public Communication, California State University at Chico. FSA: Communication Studies

Nicole Corcoran, Counseling/Transfer Center Director
B.A., Sociology, University of California, San Diego; M.A., Counseling, Sonoma State University. FSA: Counseling

Leslie Crane, Health Sciences
ADN, Nursing, Long Beach City College; B.S., Health Sciences, Chapman University; M.S.N., Nursing & Education, Sonoma State University; Ed.D., Education and Educational Technology, University of Phoenix. FSA: Health Sciences

Canon Crawford, Public Services Librarian
B.A., German, Augustana College; M.L.I.S, University of Illinois, Urbana. FSA: Library Science

Christopher Cullen, English
B.A., English, Chico State University; M.A., English, Chico State University; M.F.A., Creative Writing, Eastern Washington University. FSA: English

Erin Daniels, Learning Resources-Electronic Services Librarian
B.A., English and German, University of Portland; M.L.I.S., Simmons College. FSA: Library Science

Felicia Darling, College Skills
B.S., Mathematics, Johnson State College; M.Ed., Curriculum & Instruction, Lyndon State College; PhD., Mathematics Education, Stanford University. FSA: College Skills, Adult Education

Rima DasGupta, Behavioral Sciences
B.A., University of California, Los Angeles; M.A., Sociology, Brown University; PhD, Sociology, Brown University. FSA: Behavioral Sciences

Dianne Davis, Guidance/Counseling
B.A., Speech Pathology, Chico State University; M.A., Speech Pathology, Chico State University. FSA: Disabled Students Programs & Services

Dante DePaola, Kinesiology, Athletics & Dance
B.A., Human Biodynamics, University of California, Berkeley. FSA: Physical Education

Jeffrey Diamond, CIS
B.S., Music Therapy, State University College; M.A., Education, Sonoma State University. FSA: Computer Studies

Salvador Diaz, History/Social Sciences
B.A., History. Fresno State University; M.A., History, Princeton University. FSA: Social Sciences

Anne-Marie Donegan, Social Sciences
B.A., European History, Colgate University; M.A., U.S. History, San Francisco State University. FSA: Social Sciences

Diane Donnelly, Health Sciences/ADN
A.S.N., Nursing, College of Marin; M.S.N., Nursing, University of San Francisco. FSA: Associate Degree Nursing

Bic Ha DoVan, Mathematics/Petaluma Campus
A.A., General Studies, Lake Tahoe Community College; B.A., Mathematics, Sacramento State University; M.S., Mathematics, University of Nevada. FSA: Mathematics

Laura Downing-Lee, Theatre Arts and Fashion
B.A., Mass Communication, UC Davis; M.A., Drama, San Francisco State University; M.F.A., Directing, University of Washington. FSA: Academic Theatre Arts

Joanie Dyback, Administration of Justice
B.A., Criminal Justice, Mansfield State College; M.S., Criminal Justice, California State University, Sacramento; J.D., Golden Gate University. FSA: Administration of Justice

Lynn Erikson Rhode, College Skills
B.S., Business Administration, Sonoma State University; M.A., Education Instruction, Saint Mary's College. FSA: College Skills

Robin Eurgubian, Counseling
A.A., Liberal Studies, Santa Rosa Junior College; B.A., Anthropology, University of California, Los Angeles; M.A., Counseling, Sonoma State University. FSA: Counseling

Angelica Evins, English
B.A., English Language & Literature, University of Chicago; M.A., English, Sonoma State University. FSA: English

Debbie Ezersky, Disability Resources
B.A., Liberal Arts, Evergreen State University; M.S.W., Social Work, Yeshiva University. FSA: Disabled Students Programs & Services

Tom Falbo, Mathematics
B.S., Applied Mathematics, Sonoma State University; M.S., Mathematics, University of Oregon. FSA: Mathematics

Daniel Famini, Agriculture/Natural Resources
A.A./A.S., Santa Rosa Junior College; B.A., Integrative Biology, University of California, Berkeley; D.V.M., Veterinary Medicine, University of California, Davis. FSA: Agriculture/Natural Resources

Jean Farnham, Health Sciences
B.S., Nursing, Midland Lutheran College; M.S., Nursing, Nebraska Methodist College. FSA: Health Sciences

Joseph Fassler, Chemistry & Physics
B.S., Chemistry, California Institute of Technology; M.S., Chemistry, University of California, Berkeley. FSA: Chemistry

Robin Fautley, Biological Sciences
A.A, Santa Rosa Junior College; B.A., Biology & Environmental Studies, Sonoma State University; M.A., Biology, Sonoma State University. FSA: Life Sciences

Mark Ferguson, Mathematics
B.A., Mathematics, Western Oregon University; B.A., Business, Western Oregon University; M.A., Mathematics, Oregon State University. FSA: Mathematics

Steven Fichera, Business
A.A., History, Ocean County College; B.A., History, Rutgers College; M.B.A., Business Administration, Rutgers School of Business; J.D., Rutgers School of Law. FSA: Business Administration

Rhonda Findling, Counseling
B.A., Politics, University of California, Santa Cruz; M.A., Career Development, John F. Kennedy University. FSA: EOPS Counseling, Guidance/Counseling

Betsy Fischer, Culinary Arts
FSA: Culinary Arts

Lucinda Fleckner, Health Sciences/Dental Hygiene
B.S., Dental Hygiene, Loma Linda University; M.S., Dental Hygiene, University of California, san Francisco. FSA: Health Sciences

Jerome Fleg, Music
B.M., Music, Peabody Conservatory; M.M., Music, University of Northern Colorado; D.M.A., Music, University of Colorado. FSA: Music

Amy Roscielle Flores, College Skills/Mathematics
B.S., Mathematics, Baguio Colleges Foundation/Benguet State University; M.A., Education, New Mexico State University. FSA: College Skills, Adult Education

Brenda Flyswithhawks, Behavioral Sciences
B.A., Sociology, University of Texas; M.A., Counseling, Sonoma State University; Ph.D., Clinical Psychology, Sierra University. FSA: Behavioral Sciences

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B.A., Physics, Sonoma State University; M.S., Chemistry, University of California, Los Angeles. FSA: Chemistry

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B.A., Art History, University of California, Riverside; M.A., Comparative Literature, University of California, Riverside; Ph.D., Comparative Literature/Interdisciplinary (Art History/Aesthetics), University of California, Riverside. FSA: Modern & Class Language, English, College Skills, Art, Humanities/Interdisciplinary Studies

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ADN, Nursing, Santa Rosa; B.A., Psychology, Sonoma State University; B.S., Nursing, Western Governors University; M.S., Nursing, Western Governors University. FSA: Health Sciences

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B.A., magna cum laude, Social Sciences, University of New York at Stony Brook; M.S.W., summa cum laude, Community & Clinical Social Work, San Francisco State University; Ed.D., Counseling and Educational Psychology, University of San Francisco. Visiting Professor: University of Malaysia as United States Peace Corps Volunteer. Licensed California Clinical Social Worker and Licensed Marriage, Family, and Child Counseling. Books: Grieving Days, Healing Days, Sexually Speaking, and Sexual Themes and Variations FSA: Behavioral Sciences

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Professional Chef Certificate, California Culinary Academy, San Francisco. FSA: Culinary Training

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A.A., Nursing, Santa Rosa Junior College; B.A., Psychology, Sonoma State University; B.S., Nursing, Sonoma State University; M.S., Nursing Education, Capella University. FSA: Health Sciences

Jeffrey Snow, Department of Public Safety
B.A., Biological Sciences, UC Santa Barbara. FSA: Emergency Medical Care

Scott Snyder, Emergency Medical Care/Department of Public Safety
B.S., Biology, LeMoyne College; Fourteen (14) years of full-time teaching and vocational experience at: San Francisco Paramedic Association, San Francisco, CA; SUNY Rockland Community College, Suffern, NY; and SUNY Upstate Medical Center, Syracuse, NY. FSA: Emergency Medical Care

Audrey D. Spall, Counseling
B.A., Anthropology, California State University, Sacramento; M.S., Counseling, California State University, Sacramento. FSA: Guidance/Counseling

Laura Sparks, Earth & Space Sciences/Petaluma
B.S., Physics, Arizona State University; M.S., Physics, University of Massachusetts. FSA: Earth & Space Sciences

Karen S. Stanley, Kinesiology, Athletics and Dance
B.A., Physical Education, California State University, Chico; M.A., Wellness, California State University, Chico. FSA: Physical Education

Mike Starkey, Digital Media/Computer Studies
A.S., Santa Rosa Junior College. FSA: Digital Media

John Stover, Behavioral Sciences
B.A., Sociology, Xavier University, M.A., Sociology, Loyola University Chicago; Ph.D., Sociology, Loyola University Chicago. FSA: Sociology

Todd T. Straus, World Languages
Ph.D., French, University of California Berkeley FSA: Foreign Languages

George B. Sturr, Mathematics
B.A., Mathematics, Pomona College; M.A., Mathematics, California State University, Fullerton. FSA: Mathematics

Erin Sullivan, Behavioral Sciences/Psychology/Petaluma Campus
B.A., Psychology/Anthropology, University of Michigan; M.A., Psychology, University of California, Davis; Ph.D., University of California, Davis. FSA: Behavioral Sciences

James Sweeney, Counseling/Veteran's Affairs
B.A., Psychology, University of California, Davis; M.A., Counseling Psychology, University of San Francisco. FSA: Guidance/Counseling

Kirsten Swinstrom, Biological Sciences
B.A., Biology, UC Santa Cruz; M.S., Marine Sciences, UC Santa Cruz. Ph.D., Integrative Biology, University of California, Berkeley. FSA: Life Sciences

Jill Tarver, Health Sciences/Nutrition & Dietetic Technology
B.S., Nutrition, California Polytechnic University; M.S., Nutrition, University of California, Davis. FSA: Diet Technology

Jerry Thao, Counseling
A.A., Humanities, San Joaquin Delta College; B.A., History, University of California, Davis; M.S., Counseling, San Francisco State University. FSA: Counseling

Andrea Thomas, Kinesiology, Athletics & Dance
B.A., Mass Communications & English; Minnesota State University; M.S., Exercise Science, George Washington University. FSA: Physical Education

Eric Thompson, Philosophy, Humanities, Religion Department
B.A., Religion/Philosophy, Northwest College; M.A., Theology, Fuller Theological Seminary; Ph.D., Hebrew/Bible, Graduate Theological Union/U.C. Berkeley. FSA: Humanities, Religious Studies, and Foreign Language.

Julie Thompson, English
B.A., English, California Polytechnic State University; M.A., English, Sonoma State University. FSA: English

Hollie Tracy, Counselor/Disabled Students Programs and Services
B.A., Liberal Studies, Sacramento State University; M.S., Vocational Rehabilitation Counseling, Sacramento State University. FSA: Disabled Students Programs & Services

Michael Traina, Communication Studies/Petaluma Campus
B.A., Communication, University of the Pacific; M.A., Communication, University of the Pacific. FSA: Communication Studies

Robert Tuico, Counselor
B.A., Mathematics, San Diego State University; M.A., Educational Counseling, National University. FSA: Counseling

Phyllis Usina, Library
B.A., Biology, Sonoma State University; M.S., Library & Information Sciences, University of Illinois. FSA: Library

Anna Valdez, Health Sciences
A.D.N., Nursing, Santa Rosa Junior College; B.S.N., Nursing, University of Phoenix; M.S.N., Nursing, University of Phoenix; Ph.D., Education, Capella University. FSA: Health Sciences

Carlos Valencia, College Skills
B.S., Electrical Engineering, California Institute of Technology, Pasadena; M.A., Mathematics, Fresno State University. FSA: College Skills, Mathematics

Katherine Valenzuela, Mathematics
B.A., Mathematics, University of California, Berkeley; M.A., Mathematics, Washington State University. FSA: Mathematics

Michelle Van Aalst, English
B.A., Journalism, Humboldt State University; M.A., English, Humboldt State University. FSA: English

Anthony K. Vasquez, Counseling
B.A., M.S. California State University, Sacramento. FSA: Counseling/Guidance

Hollyahna Vettori, English as a Second Language
B.A., Linguistics, Fresno State University; M.A., Linguistics, Fresno State University. FSA: English as a Second Language

Kasey Wade, Agriculture and Natural Resources
B.A., Recreation/Natural Resource Management, California State University, Chico. FSA: Agriculture/Natural Resources

Leonard Wagner, Kinesiology, Athletics and Dance
B.A., Kinesiology, Sonoma State University; M.A., Kinesiology, Sonoma State University.
FSA: Physical Education

Thaddeus Wakefield, English
B.A. English, University of California, Berkeley; M.A., English, Long Beach State University; Ph.D., English, University of California, Riverside. FSA: English

Karen Walker, English
A.A., General Studies, Santa Rosa Junior College; B.A., Psychology, Sonoma State University; M.A., English, Sonoma State University; Ph.D., English, University of California, Davis. FSA: English

Keith Waxman, Astronomy/Earth & Space Sciences
A.S., General Education, Santa Rosa Junior College; B.A., Physics, Sonoma State University; M.S., Earth and Space Sciences, San Francisco State University. FSA: Astronomy

Kyla Wegman, Counseling CTE
A.A., Liberal Arts & Sciences, Santa Rosa Junior College; B.A., Anthropology, University of California Berkeley; M.A., School Counseling, Boston College. FSA: Counseling

David Wellman, Kinesiology, Athletics, and Dance
B.A., Kinesiology, California State University, Chico; M.A, Kinesiology, California State University, Chico. FSA: Kinesiology, Athletics, and Dance

Nora Wheeler, Mathematics
B.S., Mathematics, California Polytechnic State University; M.S., Mathematics, California Polytechnic State University.
FSA: Mathematics

Ben Whitaker, Industrial and Trade Technology
B.F.D., A.S.M.E. Certified, A.W.S. Certified California State Welding Inspector, Welding consultant, 31 years trade experience. FSA: Welding Technology, Apprentice Education

Ethan Wilde, Computer Studies Department
B.A., Art History, University of California, Santa Cruz; M.S., Architecture, University of California, Berkeley. FSA: Computer Studies

Lynda Williams, Chemistry & Physics
B.A., Applied Mathematics, California State University, Sacramento; M.S., Physics, San Francisco State University. FSA: Physics

Susan Wilson, Biological Sciences
B.A., Biology, Trinity College; Ph.D., Physiology, University of California, Berkeley. FSA: Life Sciences

Hannah Winkler, Mathematics
B.S., Mathematics, Sonoma State University; M.S., Mathematics, San Francisco State University. FSA: Mathematics

Summer Winston, Computer Studies/Graphic Design
B.A., Graphic Design & Photography, Nicholls State University; M.F.A., Digital Media, University of New Orleans. FSA: Computer Studies

Kent Wisniewski, Behavioral Sciences
B.A., Anthropology, Arizona State University; M.A., Anthropology, University of Wisconsin. FSA: Behavioral Sciences

Breck Withers, Business/Petaluma
A.A., General Education, Grossmont College; B.A., Accounting & Business Administration, San Diego State University; M.B.A., Chapman University. FSA: Business Administration

Albert Yu, Business
B.S., Hotel & Restaurant Management; M.B.A., University of Hawaii. FSA: Business Administration

Abigail Zoger, Biological Sciences/Petaluma Campus
B.A., Biology, Smith College; M.S., Ecology, University of California, Davis. FSA: Life

EMERITI

Richard Abrahams, Information Technology, 1981-2011

Noel Adams, Counseling, 1975-2005

Susan Ackerman, World Languages, 2003-2019

Robert F. Agrella, President Emeritus 1990-2012

Deborah Albers, Mathematics, 1995-2018

Gary Allen, English As A Second Language, 1995 -2017

Susan Amalia, College Skills, 1978-2008

Courtenay W. Anderson, Chemistry Department, 1966-2006

Harold Andersen, Mathematics, 1976-1994

Gary Anderson, Earth & Space Science, 1971-2004

Gary Anderson, Work Experience, 1974-1997

Irene Anderson, Home Economics, 1948-1965

Linda Anderson, Department Of Public Safety, 1986-2012

Stan Anderson, Administration Of Justice, 1958-1981

George Andreini, Speech/Drama, 1935-1972

Penelope Applegarth, Health Sciences 2005-2015

William Archer, Physical Education, 1952-1973

Bettina Armstrong, Counseling 2000-2015

Curt Askim, Business Education, 1956-1986

Younes Ataiiyan, Chemistry & Physics, 1995-2005

Robert Aune, Business Administration, 1961-1994

Nicholas Anast, Life Sciences, 2005-2015

Gale Bach, Mathematics, 2000-2019

Richard L. Bacon, Electronics, 1974-2006

Milo Baker, Botany, 1922-1945

Floyd Bailey, President, 1919-1957

Susan Baldi, Life Sciences, 1978 -2007

Ronald Balsamo, English As A Second Language, 1991 - 2017

Don Bangs, American Sign Language, 1997-2011

Carol Barnes, Business Office Technology, 1981-1999

Stephen J. Barnhart, Life Sciences, 1969-2006

Georgia Barrow, Behavioral Sciences, 1972-1998

George Bartlett, 1925-1950

Cynthia Battershall, English, 1971-2007

William Baty, Learning Resources, 1990 - 2016

Chester Beck, Dean Of Men, 1945-1966

Mararet Beck, Music, 1971-1989

Doris Beebe, English, 1955-1972

Kathryn Bell, Adaptive PE, 2005-2019

Charles Belden, Dean Of Instr-Oc Ed, 1957-1981

Amelia Benedict, Health Sciences, 1986-2007

Carole Bennett, Computer Studies, 1988-2012

Martin Bennett, Social Sciences, 1990-2012

Benjamin Benson, Behavioral Sciences, 1981-2007

Robert Berlin-Grous, Disability Resources, 1993-2010

Steven Bernstein, Philosophy/Humanities, 1989-2012

Renata Breth, Art, 1997-2018

George Bertlett, Social Science, 1925-1950

Rose Bianchi, Health Sciences, 1997 - 2016

John Bigby, Communication Studies, 1961-1994

Doni Bird, Health Sciences, 1993-2012

Joanne Black, Library, 1970-2002

Duane Blackwill, Counselor; As Dn/Petaluma, 1967-1992

Robert Blanchard, Social Sciences, 1981-1997

Betty Blauw, Home Economics, 1965-1983

Richard Blewett, Physical Ed, 1928-1968

Abby Bogomolny, English, 2004-2019

Margaret Bond, Behavioral Sciences, 1997-2010

Joan Borecky, Health Oc, ADN, 1969-1992

Marjorie Bossert, Physical Education, 1969-1992

Tom Bower, Theater Arts, 1955-1984

Albert O. Boyd, Health Sciences, 1972-1999

Patrick J. Boyle, Mathematics, 1971-2000

John Breakey, Physics/Engineering, 1986-2002

Edythe Briggs, English, 1967-1990

Patrick Broderick, English, 1995-2003

Dr. Charles Brown, Life Sciences, 1970-2000

Don M. Brown, Ag/Natural Resources, 1975-1998

Gary Brown, Computer & Information Sciences, 1982-2008

Walter Brown, Engineering/Physics, 1974-1988

Ed Buckley, Academic Affairs, 1971-2005

Sharon Buckley, Health Sciences, 1993-2014

Cathy Burgett, Culinary Arts, 2001-2019

James M. Burke, Business Administration, 1976-2001

Paula Burks, Learning Resources, 1991-2016

Jack Burroughs, Counseling, 1964-1987

Wanda Burzycki, College Skills, 1999 - 2017

William Bushnell, Environ Sc/Jewelry, 1947-1973

Howard Bryan, Business Office Technology, 1961-2006

Katherine Caddes, Health Sciences, 1994-2014

Ray Calmer, Business Office Tech., 1962-1995

Diane Campagna, PE, Dance & Athletics, 1990-2008

Eugene Canevari, Asst Dean/Student Act., 1966-1988

Toni Cannizzaro, Business Office Technology, 1978-1998

Susan Cannon, Health Sciences,1981-2013

Martha Carpenter, English, 1987-2005

Susan Carpenter, Child Development, 1989-2010

Robert Caruso, Computer Studies, 1988-2019

Richard Cheek, Business Administration, 1979 - 2017

Walter Chesbro, Information Technology , 1984-2018

Chris Christopher, Life Sciences, 1974 -2004

James Churchill, Business Administration, 1962-1995

Margaret Clark, English, 1927-1970

Karen Clark, Health Sciences, 2010-2019

Nancy Clark, Library, 1974-1991

Charles Coffel, Trade Tech, 1967-1995

Will Collier, Art, 1975-1997

Elisa Conti, Disability Resources, 1998-2014

Robert Coombs, Math, 1959-1988

Ryan Cooney, English, 1989-2007

Hank Cooper, Physical Education, 1965-1992

Ruth Craig, Foreign Language, 1949-1988

Bryon Craighead, PE, Dance & Athletics, 1971 -2007

John Crevelli, Social Science, 1962-1990

Barbara Croteau, Business Administration, 1996-2011

Vince Cucuzza, Chemistry, 1956-1982

Victor Cummings, English As A Second Language, 2001-2018

John Daly, Counseling,1972-2013

Dianne Davis, Disability Resources, 2000-2019

James Davis, Social Sciences, 2006-2015

Jean M. Davis, Counseling, 1986-2006

Oliver Deegan, Administration Of Justice, 1997-2004

Jeffrey Diamond, Computer Studies, 1999-2019

Gloria De Blasio, English, 1989-2012

Gary Decicco, Chemistry,1980-2013

Jesus De La Ossa, English, 1969-2004

Roberta Delgado, Counseling & Support Services, 1989-2011

Loretta Denner, English, 1988-2005

Izzy P. Derkos, Physical Education,Dance & Athletics, 1968-2010

Nancy Desalle, Physical Education, 1962-1995

Ann Desich, Health Oc, ADN, 1954-1981

Gordon Dixon, English/Music, 1946-1971

Robert Dodds, Social Science, 1969-1990

Bic Ha Dovan, Mathematics - Petaluma, 2007-2019

Clyde Dubois, Counseling, 1967-1986

Victoria Duckworth, English, 1997-2011

Cheryl Dunn, College Skills, 1987-2012

Robert Duxbury, English, 1984-2014

Ida Rae Egli, English, 1988-2003

Michael Eurgubian, Mathematics, 1987-2014

Rick Eleen. Public Safety, 1996-2005

Ray Ellam, Business Education, 1954-1984

Margaret Ellingson, English, 1988-2008

Don Emblen, Auto Shop, 1947-1967

Ray Emenegger, Auto Shop, 1947-1967

Mary Lou Escobedo-Gross, Child Development, 1989-2007

Cecilia Estrada, Health Oc, LVN, 1967-1993

Martha (Marti) Estrin, English As A Second Language, 1998-2016

Ralph Farve, English, 1981-2008

Robin Fautley, Biological Sciences, 1999-2019

Margery Fellers, Commerce, 1937-1966

Paul Finn, Agriculture/Natural Resources, 1974-2000

Donald L. Fischer, Public Safety, 1970-2003

Douglas Fisher, English, 1981-2016

Kevin Fletcher, Art 1986-2015

Peggy (Margaret) Floren, English As A Second Language,1988-2013

Brenda Flyswithhawks, Behavioral Sciences , 1993-2019

Phil Forester, English, 1986-2006

Margretta Fortuin, Health Oc, ADN Director, 1954-1972

Anna Harriett Foshee, Music,1989-2005

Craig Foster, English 1988-2015

Rebecca Fouquette, Mathematics, 2008-2012

Julio Francescutti, Theater Arts, 1949-1968

Caren Franci, PEDA, 1970-2002

Robert Fraser, Agriculture/Natural Resources,1987-2013

Dean G. Frazer, Social Sciences, 1970-2000

Don Freed, Social Science, 1971-1991

Monte Freidig, Social Sciences, 1997-2019

George Freund, Philosophy, 1982-2012

Joseph Friedman, Learning Resources/Ed Tech, 1985-2009

John Fritschen, Business Administration, 2002-2018

Terri Frongia, World Languages, 2000-2019

Dennis K. Fujita, Chemistry, 1971-2006

Scott Fuller, Behavioral Sciences, 1985-2008

Galen George, Chemistry, 1982-2018

Joseph Gerber, Behavioral Science, 1965-1997

Diane Giles, Mathematics, 1965-1997

Sarah Gill, Art,1983-2005

Frank Howes Gleason, Life Sciences, 1975-1998

Julie Gleason, Child Development, 1978-2008

Peggy Goebel, Health Sciences, 1976-2014

Veronica Gondouin, Health Sciences, 1985-2008

Dan Goulart, Music, 1973-2001

Connie Gozzarino Counseling, 1998-2014

Michael Grabowski, Administration of Justice, 2003-2019

Carla Grady, Philosophy, Humanities & Religion , 2001-2019

Charlotte Granderson, Counseling & Support Services, 1990-2011

Gregory Granderson, Counseling & Support Services, 1991-2011

Micca Gray, Learning Resources, 1991-2015

Matthew Greaney, College Skills, 1994 - 2016

Joyce Griffin, English, 1968-1996

George Grijalva, Disability Resources, 1975 -2007

Curtis L. Groninga, Administrative Services, 1982-2009

Henry Gronroos, Work Experience, 1973-2004

Joyce Gronroos, Business Office Technology, 1970-2004

Marjorie Grossman, Learning Resources/Ed Tech, 1981-2009

Ross M. Grossman, Philosophy/Humanities, 1986-2001

Brian Gully, Industrial & Trade Technology, 2005-2015

Karin Guzman, Counseling, 1990-2010

Raoul Guzman, Behavioral Science, 1971-1993

Charles Haentijens, Mathematics, 1936-1954

Julie Hahn, Counseling & Support Services, 1978 -2007

Jay Hall, Philosophy/Humanities, 1962-1982

Louise Hallberg, Registrar, 1940-1975

Allene Hankla, Asst. Dean/Oc Ed, 1969-1987

Harvey Hansen, Social Science, 1958-1984

Pete Hardy, Public Safety, 1988 -2007

Jeanie L. Harmon, Child Development, 2004-2019

David Harrigan, English, 1958-1989

Howard Harris, Communication Studies, 1978 -2004

Bill Harrison, Theater Arts, 1967-199

Alberta S. Hart, Communication Studies, 1979-2000

Carol Hatrick, Health Sciences, 1984-2019

Deanna Hatter, Counseling 2000-2014

Theodore Hawkins, Journalism, 1951-1975

Jack Healy, Dean, Special Programs, 1957-1987

Sally Heath, Physics, 1967-2002

Barbara Heiman, Computer & Information Sciences, 1990 -2006

Max Hein, Art, 1969-2005

Linda Hemenway, Computer Studies, 1988-2015

Beverly Henningsen, Work Experience, 1986-2015

Ann Herbst, Mathematics, 1988-2012

David Herrington, Kinesiology, Athletics And Dance , 1982-2012

Val Hicks, Music, 1976-1995

Harold Hill, Humanities, 1962-1970

Ray Hill, Public Safety/AJ, 1981-2008

Beverly Hinkle, Health Sciences, 1987-2010

Alison Hinnenberg, Art, 2001-2019

Xuan Ho, Health Sciences , 1989-2012

Cott Hobart, Philosophy/Humanities, 1961-1997

Clifford Hodder, Social Science, 1968-1990

Milt Hoehn, Mathematics, 1956-1984

Adolph Hofmann, Mod/Class Languages, 1966-1977

Kenneth Holback, Student Services, 1979-1997

George Hollidge, Student Personnel, 1946-1972

Jean Horton, Art, 2001-2011

Susan Houlihan, Communication Studies, 1986-2019

Gerald Hudlow, Behavioral Science, 1970-1984

Alvin Hunter, Behavioral Science, 1947-1976

Terri Isaac, Child Development, 1972-1990

Susan Jaderstrom, Business Administration, 1991-2012

Johanna James, Computer Studies, 1989-2010

Dorothy Johnson, Commerce, 1937-1966

Joyce Johnson, Behavioral Sciences, 2004-2011

Grace Jordan, Librarian, 1924-1956

Roger Karraker, Communication Studies, 1982-2005

Richard Kavinoky, Mathematics, 2003-2013

Marion Kaus, Health Oc, ADN, 1967-1983

Helen Keefer, Health Oc, ADN, 1951-1993

Karen Kellam, Counseling & Support Services, 1986-2009

Robert C. Kelley, English, 1963-1999

William Kelly, Industrial & Trade Technology, 1999-2014

Weston Kendall, Engineering/Physics, 1967-1997

Edwin Kent, Dean Of Men, 1942-1956

Eira Klich-Heartt, Health Sciences, 2014-2019

Melissa Kort, English 1981-2015

Shirley Kotite-Young, English, 1969-1996

Kathleen Kraemer, Disability Resources, 1994-2010

Edward Lafrance, Communication Studies, 1985-2010

Maurice Lapp, Art, 1956-1990

Margaret Lara, Foreign Language, 1967-1986

Diane Larson, Counseling & Support Services, 1988-2011

Andre Larue, Social Sciences, 1995-2018

Marian O'Laughlin, Nursing, 1970-2002

John Lebaron, Art, 1975-1997

Josephine Lee, Mathematics, 1974-2006

Richard Lehrer, Health Sciences, 2012-2019

Lorin Leith, English As A Second Language, 1988 -2006

Peter Leveque, Life Science, 1959-1994

Harriet Lewis, Consumer & Family Studies, 1976-1997

Anne Lilly, Health Science, 1981-1996

Margaret Ling, Health Oc, LVN, 1962-1987

Elizabeth Linscott, Dean, Eve College; P.E., 1937-1968

Adele Livingston, Health Oc, Rad Tech., 1971-1989

Pamela (PJ) Lococo, Agriculture/Natural Resources, 1982-2015

Reneé Lopilato, Work Experience,1996-2013

Sanford Lowe, Philosophy/Humanities, 1971-2001

Mike Lynch, Trade Tech, 1975-1994

Molly Lynch, Counseling & Support Services, 1987-2011

Virginia Maclvor, Health Oc, ADN, 1957-1967

Bruce Macpherson, Business Administration, 1966 -2005

Debbe-Ann Medina Kinesiology, Athletics & Dance, 1997-2016

Ken Magoon, Behavioral Sciences, 1970-2003

Jennifer Mann, Disability Resources, 1991-2009

Davis Mannino, Behavioral Sciences , 1990-2019

John Martin, Mathematics, 1981-2018

William R. Massey, Social Science, 1975-2006

Carolyn Massell, Computer Studies,2001-2013

Robert Mastin, Physical Education, 1946-1979

Molly Matheson, Library - Petaluma, 2008-2019

Harold Matthews, Chemistry, 1945-1966,

Marv E. Mays, Physical Education, 1963-2000

Lois Mazzucchi-Ballard, Health Oc, Dent. Asst., 1959-1982

Maureen A. Mccarthy, Mathematics, 1985-2003

Barbara Mcclure, English – Petaluma Campus, 1991 - 2017

Janet Mcculloch, English, 1990-2013

Jack Mccume, Social Sciences, 1970-1998

Kathleen Mcgreevy, Library & Informational Resources, 1990-2011

Joan Mcmurray, Admissions & Records, 1987-2005

Robert Medley, Chemistry, 1960-1979

Sydney Meller, 1930-1957

Bruce Mendel, Dir, Sonoma State Hospital, 1961-1987

Harry Meyn, Music, 1946-1972

Roy Mikalson, President, 1971-1990

Jane Millar, Mathematics, 1984 -2005

Charles Miller, English, 1966-1997

Robert Miller, Industrial & Trade Technology 1993-2015

Marilyn Milligan, Phd, Behavioral Sciences, 1976-2000

Robert Y. Miyashiro, Physical Education, 1971-2000

Howard Moes, Dir, Special Education, 1973-1991

Paul Moosman, Child Development, 1997-2019

Steve Morris, Counseling & Support Services, 1989-2011

Genevieve Mott, English, 1921-1956

Terence Mulcaire, English , 1999-2019

Nikona Mulkovich, Behavioral Sciences - Petaluma , 2002-2019

Stephen Mullany, Agriculture & Natural Resources, 1989-2011

Lee Munson, Business Adminsttration, 1986-2004

Daniel Munton, Mathematics, 1989-2019

Joan E. Murphy, Health Sciences, 1994-2010

Gino Muzzatti, English As A Second Language 1985-2015

Julie Muzzatti, College Skills/Tutorial, 1994-2019

Ronald Myers, Kinesiology, Athletics & Dance, 1989 - 2017

Clark Nattkemper, Life Sciences, 1943-1974

Luz Navarrette, Counseling, 1988-2014

Ricardo Navarrette, Student Services, 1986-2016

Wayne J. Neel, English,1977-2013

Richard Neitzel, Engineering, 1946-1974

Jon Nelson, Music, 1983 -2005

Randolph Newman, President, 1947-1972

Lois Newman, Librarian, 1959-1979

Curtis Newsom, Department Of Public Safety, 2007-2013

Eleanor Newton, Health Oc, ADN, 1957-1973

Chester Nicholls, Forestry, 1963-1973

Julio Nison, 1949-1968

Ellis Nixon, Life Sciences, 1946-1968

Clifford Norton, Industrial & Trade Technology, 2009-2019

Brian O'brien, Life Sciences, 1974-2007

Anne O'Donnell, Consumer And Family Studies 1989-2015

Gerald Ogle, Music, 1953-1983

Rita Okerstrom, Public Safety, 1980 -2005

David Ohlsen, Mathematics, 1985-2019

John Overn, Behavioral Science, 1972-1995

Bonnie Panizzera,Consumer And Family Studies, 1980-2015

Linda Paquette, Health Sciences, 2008-2018

Gary Pasqualetti, Applied Technology 1990-2015

Sidney Patzer, Social Science, 1946-1971

Edward Peoples, Administration Of Justice, 1978-1997

Pauline Pearlman, Communication Studies, 1978-2005

Erlinda Peraza, Extended Opportunity Programs & Services, 1981-2017

Rene Peron, Behavioral Sciences, 1971-2005

Richard W. Perry, Business Administration, 1984-2001

Karen Petersen, Library & Information Resources , 1994-2012

John Peterson, Music, 1950-1980

Ellis Peterson, Engineering, 1947-1982

Stephen Petty, Philosophy/Humanities, 1970-1998

Peggy Phipps, Counseling, 1980-2012

Rae Pivonka, Manual Skills Center, 1969-1992

Gus P'Manolis, Social Sciences, 1986-2005

Evelyn Pollard, Counseling/Guidance, 1964-1997

James Porter, Agriculture/Natural Resources, 1974-2004

Tom Power, Electronics, 1962-1991

Craig Price, College Skills, 2003-2013

Andrea Proehl, Learning Resources,1990-2013

Frank Pugh, Counseling, 1979-2018

Bruce Purcell, Computer Studies 1985-2015

Elizabeth Quadnt, Art, 1970-1986

T. Norberto Quiroz, Counseling,1999-2018

Dexter Rammage, Industrial/Trade Tech, 1999-2005

Diana Rangaves, Health Sciences, 2011 - 2016

Raquel Rasor, English As A Second Language, 1978-2010

Margaret Rattle, Art, 1984-2001

Henry Ravenscroft, Engineering, 1942-1967

Dr. John A. Ray, Behavioral Sciences, 1970-2005

Len Read, PE/Dance/Athletics, 1966-1997

Cheryl Redmon, Business Office Technology, 1974-2009

Sandra Reed, Work Experience, 1985-2004

Diana Reeder, English, 1990-2012

Cyndi Reese, Computer Studies, 1981-2012

Valerie Reid, Home Economics, 1970-1990

Catherine Reisman, Disability Resources,1991-2013

Donna Reynolds, Counseling & Support Services, 1989-2009

Florence Rhodehamel, Philosophy, German, 1927-1962

Harold Rodarmel, Business Education, 1954-1985

Al Roemer, 1936-1954

Ron Root, Business Services, 2000-2005

Beth Rose, Nursery School, 1948-1973

Jim Rosen, Art, 1968-1984

Nina Rosen, English As A Second Language, 1997-2012

Ernest Rothert, Life Sciences, 1944-1969

Robert Rubin, Life Sciences, 1968-2009

Joel Rudinow, Philosophy/Humanities, 1984-2012

Clyde Russell, Mathematics, 1970-1993

Warren Ruud, Mathematics 1982-2015

John “Pat” Ryan, Physical Education, 1968-1992

Dennis Ryan, Trade Tech, 1966-1994

Michael Salinger, Culinary Arts, 1993-2019

Ann Samson, English, 1989 -2004

Stephanie Sanchez, Art, 2003-2019

Ruben Sandoval, English 1990-2015

Margaret Saragina, Business, 1985-2018

Barney Sayles, Civil Engineering Tech., 1971-1989

Dan Scannell, Administration Of Justice, 1972-1981

Frantisek Schneider, German, 1943-1966

Bob Schooling, Computing Services, 1977-1997

Maryanne Scozzari, Theatre Arts & Fashion, 1987-2019

Ron Schuelke, Social Science, 1975-2006

Metha Schuler, Computer & Information Sciences, 1985-2002

Marjorie Schultz, PE/Dance/Athletics, 1970-1997

Terry Shell, Mathematics, 1981-2015

Carmen Sheldon, Computer Studies, 1990-2016

Marvin Sherak, English, 1956-1989

Joe Sherlock, Electronics, 1967-1989

Howard Shipman, Audio Visual, 1965-1983

Richard Shore, Earth & Space Sciences, 1970-2004

Edwin Sikes, Applied Technology 1982-2014

Joseph Simons, Ph.D., Behavioral Sciences, 1969-2003

Keith Simons, Kinesiology, Athletics & Dance , 1996-2019

Dianne M. Smith, Behavioral Sciences, 1976-2009

Ernestine Smith, Physical Education, 1948-1973

Karl J. Smith, Mathematics, 1968-2003

Ronald L. Smith, Earth & Space Sciences, 1985-2003

Joe Smyth, Mathematics, 1965-1982

John Soares, Social Science, 1950-1975

Arnold Solkov, English, 1970-1990

Audrey Spall, Counseling, 1985-2019

Richard Speakes, English,1989-2013

James Spencer, Mathematics, 1988-2012

Dr. Curtis Sprenger, Music, 1969-2000

Gary Squires, Community Health Education Center, 1962-1993

Iris Stevenson, English/Languages, 1965-1981

George Stewart, English, 1964-1970

Sylvia E. Stinson, Music, 1981-2002

Stuart Sudduth, Business Administration,1983-2013

Bernard Sugarman, English, 1969-1995

Herbert Sullivan, Electronics, 1974-2009

Patrick Sullivan, Trade Technology & Auto Technology, 1982-2004

Barbara Surian, Health Science, 1980-1995

Ellen Swenson, Health Sciences, 1975 -2006

Deborah Sweitzer, Applied Technology, 1989 -2016

Clarence Sypher, PE/Athletics, 1936-1964

Faye Tarvin, Health Oc, ADN, 1948-1970

Brook Tauzer, VP/Academic Affairs, 1955-1986

Tony Taylor,S Chemistry, 1974 -2005

Richard L. Thomas, Agriculture/Natural Resources, 1973-2001

Judith Thorn, Interdisciplinary Studies In Philosophy, Humanities & Religion,1998-2013

Doris TOLKS, Counseling, 1974-2006

Charles Tourville, Physical Ed./Athletics, 1976-1996

Dwight Tracy, Trade Tech, 1963-1993

Janet A. Tracy, Counseling And Guidance, 1979-1999

Linda Tracy, World Languages, 1992-2019

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