



General Catalog

2016-2017



Mostly experienced as the steep scrublands one passes on the way to the sequoia forests, the foothills of the Sierra Nevada Mountains are known for their rich array of sparse forest and shrub plant communities. Plant and animal life is abundant here and includes species found only in this region. College of the Sequoias Biology students regularly use this magnificent living laboratory to study plant and animal diversity and interactions.

Updated: 11/2/2016

College of the Sequoias

2016-2017



Visalia Campus
915 S Mooney Blvd
Visalia CA 93277
(559) 730-3700

Hanford Educational Center
925 13th Avenue
Hanford CA 93230
(559) 583-2500

Tulare College Center
4999 E Bardsley Avenue
Tulare CA 93274
(559) 688-3000

College of the Sequoias is a member of the American Association of Community Colleges and the Community College League of California. The College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, (10 Commercial Blvd, Novato, CA 94949, Telephone (415) 506-0234, Fax (415) 506-0238), an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education. The College is an accredited institution recognized by the Council for Higher Education Accreditation and the U.S. Department of Education. It is listed in the Directory of the Western Association of Schools and Colleges and in the Accredited Institutions of Postsecondary Organizations, 1990-91, a publication of the American Council on Education.

Sequoias Community College District (College of the Sequoias) has made every reasonable effort to determine that information stated in this catalog is accurate. Courses and programs offered, together with other matters contained herein, are subject to change without notice by the administration of Sequoias Community College District for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the District. The District further reserves the right to add, amend, or repeal any of its rules, regulations, policies, and procedures.

Alternative Formats

This publication can be made available in an alternative format.

To request a copy in alternative format, please contact the Access & Ability Center (559) 730-3805.



President's Message

Dear COS Students, Faculty, Staff and Community:

Welcome to College of the Sequoias, an institution that has been helping students achieve their educational and career goals for the past 90 years.

College of the Sequoias has three campuses (Visalia, Hanford and Tulare), with programs designed to meet many important student needs – from transfer patterns designed to prepare those students pursuing four year degrees to career technical education programs centered around building career/technical skills. The College is committed to providing local and regional opportunities for training in courses and services through our Training and Resource Center.

We offer students the opportunity to develop through co-curricular experiences that enhance personal growth and development via the arts, intercollegiate athletics, and student governance. Wherever you are on your road to success, the District's faculty, counselors, staff and administrators are right there to assist you.

On behalf of our entire COS team, I want to wish you the very best College of the Sequoias has to offer!

Most respectfully,

Stan A. Carrizosa
Superintendent/President
College of the Sequoias



Board of Trustees



Greg Sherman (Ward 1)



Ken Nunes (Ward 2)



Earl Mann (Ward 3)



Lori Cardoza (Ward 4)



John Zumwalt (Ward 5)

District Mission

College of the Sequoias: Is a comprehensive community college focused on student learning that leads to productive work, lifelong learning and community education and involvement.

College of the Sequoias: Affirms that our mission is to help our diverse student population achieve their transfer and/or occupational objectives and to advance the economic growth and global competitiveness of business and industry within our region.

College of the Sequoias: Is committed to supporting students' mastery of basic skills and to providing programs and services that foster student success.

District Philosophy

College of the Sequoias believes that all individuals are innately valuable and entitled to develop their full potential; that a healthy and vigorous society benefits from an informed appreciation of the cultural, racial and socioeconomic variations among its members; that a democracy depends upon a critical, questioning and informed citizenry; and that the college programs serve the individual, the community and society.

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Welcome Center 730-3730

Administration

Stan A. Carrizosa	Superintendent/President
Brent Calvin	Vice President, Student Services
Christine Statton	Vice President, Administrative Services
Jennifer Vega La Serna, Ph.D.	Vice President, Academic Services
Kristin Robinson, Ph.D.	Provost, Hanford Educational Center
C. Louann Waldner, Ph.D.	Provost, Tulare College Center; Dean, Agriculture
John Bratsch	Dean, Human Resource Services
Michele Brock	Dean, Student Services
Brent Davis	Associate Dean, Physical Education/Athletic Director
Cindy DeLain	Dean, Business, Consumer Family Studies, Nursing and Allied Health
Marshall Fulbright	Dean, Arts and Letters
Tim Hollabaugh	Dean, Technology Services
Jessica Morrison	Dean, Student Services
Thad Russell	Dean, Career Technical Education and Workforce Development
Robert Urtecho, Ph.D.	Dean, Natural and Social Sciences, Mathematics and Engineering
Byron Woods	Dean, Facilities

Faculty Leadership

Thea Trimble, Ph.D.	Academic Senate President
Greg Turner	Academic Senate Vice President
Sondra Bergen	Academic Senate State Representative
Fernando Fernandez	Agriculture Division Chairperson
Janell Spencer	Business Division Chairperson
Millicent Owens	Consumer Family Studies Division Chairperson
Frank Tebeau	Industry and Technology Division Chairperson
Tom Weise, Ed.D.	Fine Arts Division Chairperson
David Hurst	Language Arts Division Chairperson
Jared Burch	Mathematics and Engineering Division Chairperson
Terri Paden	Nursing and Allied Health Division Chairperson
Tracy Myers	Physical Education Division Chairperson
Julie Rodriguez	Science Division Chairperson
Alicia Crumpler	Social Sciences Division Chairperson
Meng Vang	Student Services Division Chairperson

College of the Sequoias Foundation

The COS Foundation is an independent nonprofit organization led by volunteer community members within the COS District who are supportive of COS and its positive impact on students and their communities. Foundation volunteers and staff cultivate and direct community resources to COS in the areas that matter most to the communities which COS serves. Primarily through direct gifts, special events, and planned giving, these raised resources are invested or immediately spent for the direct benefit of COS students and programs. Some recent uses include student scholarships, educational equipment purchases, and capital improvements. To learn more about the COS Foundation or to contribute, please go to the Foundation website: www.cos.edu/Foundation or contact the Foundation Director, Tim Foster, at (559) 730-3861.

College of the Sequoias Is an Equal Opportunity Employer

College of the Sequoias does not discriminate on the basis of race, creed, color, national origin, sex, gender, sexual orientation, age, religion, mental or physical disability, medical condition, genetic information, marital status, military service, or any other basis protected by law in any of its policies, procedures, or practices, in compliance with Title VI of the Civil Rights Act of 1964 (pertaining to race, color, and national origin), Title IX of the Educational Amendments of 1972 (pertaining to sex), Section 504 of the Rehabilitation Act of 1973 (pertaining to handicap), the Age Discrimination Act of 1975 (pertaining to age), and the American with Disabilities Act of 1990. This nondiscrimination policy covers admission and access to, and treatment and employment in, the College's programs and activities, including vocational education. Inquiries regarding the equal opportunity policies, the filing of grievance, or to request a copy of the grievance procedures covering discrimination complaints may be directed to:

John Bratsch, Dean, Human Resource Services
Equal Employment Opportunity Offices
Title IX Coordinator, Section 504 Coordinator
And ADA Compliance Office
(559) 730-3830

The lack of English language skills will not be a barrier to admission and participation in the College's vocational education programs.

Non-Discrimination

College of the Sequoias recognizes its obligation to provide overall program and physical accessibility throughout the District for persons with disabilities. If you believe that programs and services are not accessible, please contact John Bratsch, Section 504 Coordinator/ADA Compliance Officer at (559) 730-3830. Inquiries regarding Federal laws and regulations concerning non-discrimination in education or the District compliance with those provisions may also be directed to:

Office for Civil Rights
U.S. Department of Education
221 Main Street, Suite 1020
San Francisco, California 94105

Student Right-to-Know Disclosure

The Student Right-to-Know (SRTK) legislation (Public Law 101-542) requires an institution to produce and publicly disclose its graduate rate and transfer rate. This data can be located on the California Community Colleges Chancellor's Office website. The current data reflects the percentage of degree, certificate and/or transfer-seeking students starting first time in 2008-09 and tracked for six years through 2013-14 who completed a degree, certificate or transfer-related outcomes.

<http://scorecard.cccco.edu/scorecardrates.aspx?CollegeID=#home>

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Policies and Administrative Procedures

Policies and Administrative Procedures provided in the catalog are subject to change. For the most current policies and procedures, students should consult the official COS website at www.cos.edu.



Statement of Professional Ethics (Administrative Procedure 3050)

College of the Sequoias (COS) is comprised of professionals who are dedicated to promoting a climate which enhances the worth, dignity, potential, and uniqueness of each individual within the college community. Although we work in various settings and positions, we are committed to protecting human rights and pursuing academic excellence. While demanding for ourselves freedom of inquiry and communication, we accept the responsibility these freedoms require: competency; objectivity in the application of skills; concern for the best interest of students, colleagues, and the college community; and avoidance of conflicts of interest; and, the appearance of impropriety.

1. Model ethically responsible behavior for students and colleagues and expect ethical behavior from others at all times. When the employee and the College encounter disagreements or conflicts concerning ethical behavior, personal values, performance or conduct, both the employee and the College have the responsibility directly and constructively to seek resolution of the conflicts. Possible actions include (a) confronting the individual in question, (b) utilizing institutional channels and procedures, and/or (c) using available mechanisms of professional associations.
2. Have responsibilities to the institution and to individuals they serve. Therefore, employees support the philosophy and mission of the District.
3. Address issues and work with people without prejudice and, therefore, do not discriminate unjustly against or in favor of any student or employee.
4. Avoid relationships that seek to meet an employee's personal needs at the expense of a student or a person under their supervision. They avoid conflicts of interest which may result from dual relationships, such as those of a sexual nature.
5. Recognize that personal problems and conflicts may interfere with employee effectiveness. Accordingly, employees monitor their personal and professional effectiveness and seek assistance when needed (e.g., psychological, medical, legal).
6. Ensure that accurate representation of District goals, services, programs, and policies are made to the public, students, and colleagues.
7. Avoid conflicts of interest between their contractual obligations to the District and private business or personal commitments (e.g., not soliciting clients or selling services or products during the course of their regular work at COS and refusing remuneration for services rendered to persons for whom they perform the same services as an employee of the District).

8. Avoid forcing personal values, beliefs, and behaviors on others.
9. Recognize that the shift to an information society gives employees access to increasing amounts of data, much of it automated. Employees exercise the privilege of using such data with care and integrity, and actively guard the privacy of individuals.
10. Engaged in research, are knowledgeable and skilled in research techniques, use sound and defensible methodologies, conduct and report investigations in a manner that minimizes the possibility that results will be misleading, inaccurate, and/or deceptively incomplete.
11. Adhere to copyright law and established guidelines which seek an appropriate balance between the proprietary rights of copyright owners and the instructional needs of educational institutions.

Open Access Principle

The District maintains an open access admissions policy. Enrollment is open to any person who is a high school graduate or who is 18 years of age or over and able to benefit from instruction. Enrollment is also open to high school students who qualify for enrollment.

"The policy of this District is that, unless specifically exempted by statute or regulation, every course section, or class, reported for state aid, wherever offered and maintained by the District, shall be fully open to enrollment and participation by any person who has been admitted to the College and who meets such prerequisites as may be established pursuant to regulations contained in Article 2.5 (commencing with Section 55200) of Subchapter 1 of Chapter 6 of Division 6 of Title 5 of the California Code of Regulations."

Regarding students who are not citizens or who are not officially authorized by federal law to be present in the United States, but have applied for application at this college, please refer to our Position Statement on Proposition 187 on page 7 of this catalog.



Academic Calendar

Fall Semester 2016	August 15, 2016 - December 16, 2016
September 8, 2015	WEB Admission Applications Begin for Summer/Fall 2016 at www.cos.edu
Starting March 28	Fall WEB Registration for Priority Registration / Continuing Students
April 22 -23	Fall Registration for Students who have completed STEPS
May 2	Fall Registration for Students who have completed ALL Matriculation
May 3	Fall Registration for Early College High Schools (VTech / UPHS)
May 4	Fall WEB OPEN Registration for Eligible Students
	Payment Deadline: Students must pay Fall fees by July 1 st or 2 weeks after registration (whichever is later) to avoid the possibility of being dropped from classes
July 25	Fall Registration for Concurrently Enrolled High School Students
August 10	Fall Registration for Students who have completed 100 or more units at COS
August 12	FLEX Day; Registration is available at www.cos.edu
August 15	Fall Semester Begins
August 15 - 21	Fall Late WEB Registration With Instructor Add Codes
August 28	Last Day to Drop a Class Without a "W" and be Eligible to for a Refund
September 5	Labor Day Holiday (no classes)
October 20	Last Day to File for Associate Degree for Fall 2016
October 21	Fall Final Drop Date - Drop Classes on the WEB; this drop date does not apply to short-term classes as each short-term class has its own drop date
November 11	Veterans' Day Holiday (no classes)
November 23 - 25	Thanksgiving Holiday (no classes); Offices closed November 23 – 25
December 12 - 16	Fall Final Exams
December 16	Fall Semester Ends
December 16	Last Day to Make Up Incomplete "T" Grades for Fall 2015 Semester
Dec. 17 - Jan. 17	Break Between Semesters

Spring Semester 2017	January 18, 2017 - May 25, 2017
September 6, 2016	WEB Admission Applications Begin for Spring 2017 at www.cos.edu
Starting November 7	Spring WEB Registration for Priority Registration / Continuing Students
November 28	Spring Registration for students who have completed ALL matriculation
November 30	Spring Registration for Early College High Schools (VTech / UPHS)
December 5	Spring WEB OPEN Registration for Eligible Students
December 12	Spring WEB Registration for Concurrently Enrolled High School Students
January 11	Spring Registration for Students who have completed 100 or more units at COS
January 16	Martin Luther King Jr. Holiday; Registration is available at www.cos.edu
January 17	FLEX Day; Registration is available at www.cos.edu
January 18	Spring Semester Begins
January 18 - 24	Spring Late WEB Registration With Instructor Add Codes
January 30	Last Day to Drop a Class Without a "W" and Eligible for a Refund
February 17	Lincoln Day Holiday (no classes)
February 20	Presidents' Day Holiday (no classes)
February 23	Last Day to File for Associate Degree for Spring 2017
March 24	Spring Final Drop Date - Drop Classes on the WEB; this drop date does not apply to short-term classes as each short-term class has its own drop date
April 10 - 14	Spring Break (no classes); Offices closed April 13 -14
May 19 - 25	Spring Final Exams
May 25	Commencement; Spring Semester Ends

College Facilities

Visalia Campus 915 South Mooney Boulevard Visalia California

College of the Sequoias in Visalia, California, was born of the need for locally-controlled, post-secondary opportunities for high school graduates. At the turn of the 20th century, UC Berkeley was the only public university available in California. Because Tulare County students had few opportunities to attend any university due to expense and distance, local educational leaders decided that a Junior College needed to be established to meet the growing demand for a college education.

Visalia Junior College (VJC) was opened in 1926 at the site which later became Redwood High School. It was under the control of the local school superintendent and used many of the same faculty that taught at the high school. Lower division college curriculum was offered to the initial 63 students to prepare them for transfer to either a public or private university. So many of the students who attended VJC were from Dinuba, Woodlake, Exeter, Tulare, Strathmore and Orisi that bus service was established to facilitate travel.

Once the college's enrollment reached close to 500 students, it was decided that it was time to open a campus exclusively dedicated to collegiate endeavors. The 50-acre campus on Mooney Boulevard was opened in 1940, much to the chagrin of local cynics who thought it was too far out of town and too large for local demand. In 1949, the name of the "jaycee" was officially changed to College of the Sequoias.

Today, the 70-acre Visalia campus enjoys the benefits anticipated by its prescient founders. State-of-the-art study and learning centers are complemented by ample athletic, vocational and performance facilities which make the campus one of the premier, post-secondary institutions in the Central Valley. In addition to a full transfer curriculum, the Visalia campus's programs include the following: Registered Nursing, Physical Therapy Assistant, Paralegal, Computer Technology, Sports Medicine, Industrial Maintenance and Automotive Technology.



Tulare College Center 4999 East Bardsley Avenue Tulare California

The Tulare College Center is located on 495 acres near the City of Tulare. The campus is located adjacent to Mission Oak High School, off Mooney Boulevard on Bardsley Avenue. Phases I and III of the project are complete. The campus was officially opened in January 2013. The campus currently hosts over 125 sections of courses each semester with over 2,500 seats filled and a student count of over 1,650 students.

Phase I includes over 90,000 square feet of classroom and laboratory space with a 12,000 square foot welding and construction shop. Phase III includes 65,000 square feet of equine, livestock and horticulture facilities.

The Tulare College Center offers a complement of student services including counseling, financial aid, tutorial and other services in addition to a wide variety of educational programs. Students can get their transcripts, financial aid, Associated Student Body Cards (and bus passes), photo identification cards, counseling appointments, and assessment tests in Building A on the campus. Building A also includes a health center, bookstore, food service area, library, tutorial center, student success center, and other services offered to students as part of the college experience.

The Access and Ability Center, Extended Opportunity & Services Programs, Work Experience, Veterans, and Cal Works Departments will also have representation on the Tulare campus. With over 100,000 square feet of instructional and student services space, the Tulare College Center has all of the facilities necessary to provide students with a comprehensive college program in higher education.

The full-service campus has an educational facility that offers degrees and certificates in Agriculture, Liberal Arts/Blended Studies, Architecture and Graphic Design. Phase II of the construction plan will see the relocation of the Environmental Technology, Automotive, Industrial Maintenance, Electronics, Construction Technology and Information Technology programs from the COS Visalia Campus.

A complete horticulture facility provides students with practical landscape experiences while working in the unit during class laboratories or after hours at student worksites. The farm laboratory provides students with worksites in animal science, horse production, dairy, ornamental horticulture, floriculture, turf culture, crop production, and soils.

College of the Sequoias has an outstanding vocational agriculture program that offers nearly 20 certificate and degree programs. Programs include Agriculture Business Management, Plant Science, Agriculture Power Equipment Technology, Animal Science, Dairy Science, Equine Science, Floral Technology, Landscape Design, and Landscape Management.

Also located at the Tulare College Center is the Training Resource Center. The COS Training Resource Center provides training and consulting solutions to Tulare and Kings County organizations. Our mission is to advance the economic growth and global competitiveness of business and industry in our region. Our vision is to be the preferred partner and provider of training and consulting services.



Hanford Educational Center

925 13th Avenue

Hanford California

The COS Hanford Educational Center offers a wide variety of courses which range from transfer to vocational classes. The transfer classes include general education requirements such as history, political science, English, math, communications, sociology, psychology, and business/computers. In addition, if a student is interested in pursuing a Registered Nursing program, all the prerequisites are offered at COS Hanford.

Anchor programs are offered at each of the College of the Sequoias campuses – meaning that those classes and/or programs are only offered at a specific campus. For COS Hanford, the anchor programs are those in the Public Safety arena. There are two POST Basic Police academies every year as well as an extended Policy Academy. In addition, a firefighter academy is offered in Spring of each year. Also, as part of these anchor programs, advanced officer training for peace officers and firefighters are offered every year, some of them through the COS Training and Resource Center (now located on the Tulare College Center campus).

Additionally, COS Hanford can meet a variety of student services needs at the Hanford Hub located in the Education Building. Services which can be obtained at the Hub include, but are not limited to: transcripts, financial aid, Associated Student Body Cards (and bus passes), photo identification cards, counseling appointments, and assessment tests.

Other services available for students at COS Hanford include the following: computers which are located in the library and available for student use, a Health Center, and regularly scheduled visits by personnel from the Access and Ability Center, Extended Opportunity Programs and Services, Work Experience, Veterans Resource Center, and Cal Works departments.

Other off-campus locations within the District are used to offer college courses. Students may register for off-campus classes through the Web.





INSTITUTIONAL LEARNING OUTCOMES

Critical Thinking/Problem Solving/Analysis

Students will apply quantitative and qualitative reasoning skills to obtain solutions to problems or equations through the use of creative and analytical methods.

Life/Interpersonal Skills

Students will take responsibility for their own well-being through effective self-management practices, as well as developing respect for diverse practices of others.

Communication

Students will communicate coherently and effectively, orally and in writing, adjusting to a variety of audiences and purposes, while synthesizing their positions and ideas with the thinking and writing of others.

Research and Decision Making

Students will locate and evaluate information, including diverse perspectives, to make informed and ethical decisions.

Civic Engagement

Students, informed by their academic experience, will assume the responsibilities of citizenship.



GENERAL EDUCATION OUTCOMES

1. Communication

Outcome: Students will demonstrate the ability to use reading, writing, and oral communication skills to organize, express, and absorb ideas and information in interpersonal, group, organizational, and presentational settings. These skills will be demonstrated through activities including, but not limited to, the following:

- Writing with precision and clarity to express complex thoughts
- Reading, retaining, restating, and applying ideas for a variety of purposes, including analysis, information, persuasion, enjoyment, and appreciation
- Articulating thinking with clarity of speech and connecting one's own ideas to larger conversations
- Considering and engaging the ideas of others thoughtfully and respectfully

2. Problem Solving/Critical Thinking

Outcome: Students will demonstrate the ability to think critically and to solve problems using data, analysis, interpretation, and reasoning skills. These abilities will be demonstrated through activities including, but not limited to, the following:

- Demonstration of observation skills
- Making connections and drawing inferences
- Analyzing and solving complex problems across a range of academic contexts
- Identifying one's own and others' assumptions, biases, and their consequences
- Constructing sound arguments and analyzing arguments of others
- Considering and evaluating rival hypotheses
- Employing a variety of problem-solving techniques
- Integrating knowledge across a range of contexts
- Locating, evaluating and synthesizing information from a variety of sources to develop and support a position
- Selecting an appropriate process, solution, or decision

3. Global Perspective/Social Responsibility

Outcomes:

1. Students will demonstrate the ability to understand and interpret events and issues within a global perspective.
2. Students will demonstrate ethical and cultural awareness and foster an appreciation of diversity through appropriate and effective modes of social interaction.

These abilities will be demonstrated through activities including, but not limited to, the following:

- Expressing an understanding of the interconnections and interactions between and among people and systems (political, economic, social, and natural)
- Describing the impact of the global economy on life, work, and opportunities
- Recognizing the commonality of human experience across cultures
- Recognizing the influence of diverse cultural perspectives on human thought and behavior
- Recognizing the cultural and historical value of human expression.
- Defining personal responsibility in a given circumstance
- Exhibiting respect for the rights, views, and work of others
- Displaying behavior consistent with the ethical standards within a discipline or profession

4. Self-Awareness, Development and Responsibility

Outcome: Students will demonstrate the ability to set individual goals and devise strategies for educational, personal, and professional development in a changing world. These abilities will be demonstrated through activities including, but not limited to, the following:

- Appreciating the value and importance of inquiry and the learning process
- Increasing efficiency through the use of technology
- Working effectively with others to accomplish tasks
- Recognizing one's own biases and values
- Demonstrating the ability to give and receive constructive feedback
- Setting and maintaining goals related to health and well-being
- Behaving appropriately in a variety of situations, circumstances, and roles
- Recognizing conflict and employing conflict resolution skills when appropriate

Admissions

Matriculation

Transfer Information



Admissions/Matriculation

All student registration at College of the Sequoias is completed online — at www.cos.edu.

Individuals without access to a computer can access the internet on the Visalia campus — in the Sequoia Building Student Services Resource Lab and in The Welcome Center, at the Hanford Educational Center and at the Tulare College Center.

Eligibility for Admission

Any graduate of an accredited high school may be admitted to College of the Sequoias. Also, any person having successfully completed the California High School Proficiency Examination (CHSPE) or the General Educational Development Test (G.E.D.) with scores of 45 overall and with no subtest lower than 35 may be admitted.

The College may admit other persons 18 years of age or over when the evidence indicates that the individual will benefit from college-level instruction. Students are encouraged to complete high school prior to enrolling in the College.

For dates relating to registration, check the calendar in the front of this catalog or inquire at the Registration Office in the Sequoia Building. Registration is online.

See “Classification of Students,” Extended Learning/High School Accelerated Students, for concurrent enrollment of 7th–12th grade students.

Placement Tests

All students are required to take the COS Placement Test for math and English if they have completed or will complete six (6) or more units AND plan to pursue either a certificate, Associate degree, or transfer program. All other students who plan to enroll in an English or math course or any course with an English and/or math prerequisite must also take the test. Students may be exempt from the Placement Test requirements based upon criteria listed in the Matriculation policies section of the catalog.

Tests are administered throughout the year. Information on testing may be obtained by contacting the Assessment/Placement Test Office in the Sequoia Building: (559) 730-3737.

Summary of Admission Requirements

Full-time Students: twelve (12) or more units and students planning to take more than six (6) units.

Full matriculation will be required of any student who intends to enroll for seven (7) or more units of credit. Full matriculation shall require that a prospective student:

1. Prior to the deadline specified in the schedule of classes, complete a COS Admission Application online at www.cos.edu. Detailed instructions are printed in the schedule of classes.
2. If you are under 21 years of age, request the last high school attended to send one transcript of work completed or attempted. If you have attended college, we require only college transcripts.
3. If the G.E.D. Test or the California High School Proficiency Examination (CHSPE) was taken in the last two years, have the G.E.D. scores or a copy of the CHSPE Certificate sent to the Admissions and Records Office.
4. Request each college of attendance to send one complete transcript of work attempted, whether or not credit was earned. Transcripts are to be official copies sent directly from the previous schools to College of the Sequoias. Any high school or college transcript received by College of the Sequoias becomes the property of the College and will not be released to the student or other institutions.

Transcripts are to be official copies sent directly from previous schools to the Admissions and Records Office, College of the Sequoias, 915 S Mooney Blvd, Visalia, CA 93277.

Part-time Students: Six (6) or Fewer Units

1. Prior to the deadline specified in the school calendar, complete a COS Admission Application online at www.cos.edu. Details are available at www.cos.edu.
2. File one transcript of all previous high school and/or college academic records if the student wishes to:
 - a. Apply for a Certificate of Achievement or an Associate Degree.
 - b. Apply for financial assistance (EOPS, financial aid, veterans).
 - c. Apply for special programs, particularly in the health, arts, and sciences.
 - d. Validate that a prerequisite has been met either in high school or at another college.

Classification of Students

Freshmen:

Students with fewer than 30 units of college credit

Sophomores:

Students who have completed 30 units or more of college credit

Other:

Students who have completed more than 60 units of college credit

Full-time Students:

Students carrying 12 units or more

Part-time Students:

Students carrying less than 12 units

Returning Students:

Students who have attended COS, but have missed one or more semesters (not including the summer semester)

Continuing Students:

Students who are currently enrolled

New Students:

Students who have never attended COS

**Concurrently Enrolled High School Students/
Accelerated Students:**

Seventh - twelfth (7-12) grade students are required to complete an online admission application and submit a high school permission form to the Admissions and Records Office for every semester of attendance. Attendance is on a space-available basis only. High school accelerated students attending a class at COS are not considered "continuing students." An additional form is required for 7th and 8th grade students. Home-schooled students will need to meet with a Student Services administrator to complete the permission form.

Registration

Students use Web Registration to register, add and drop classes at www.cos.edu.

Resident Regulations

Residency determination shall be made on the basis of a residence statement completed at the time of application.

A "resident" is a student who has physical presence in the state for more than one year immediately preceding the opening day of instruction of the semester (Title 5 §54028; Education Code 68017,680601) and has demonstrated intent to make California her permanent home.

A student shall be required to present evidence of physical presence in California; intent to make California her home for other than a temporary purpose; and if the student was classified as a nonresident in the preceding term, she may be required to demonstrate financial independence (Title 5 §54022/Education Code 68044) and intent to make California her place of residence.

Physical presence within the state solely for educational purposes does not constitute establishing California residence regardless of the length of that presence (Title 5 §54026). Residents of another state are nonresidents of California (Title 5 §54030). The burden is on the student to demonstrate clearly both physical presence in California and intent to establish California residence (Title 5 §54026).

A student who is a member of the Armed Forces of the United States stationed in this state on active duty, except a member of the Armed Forces assigned for educational purposes to a

state-supported institution of higher education, is entitled to resident classification only for the purpose of determining the amount of tuition and fees. If that member of the Armed Forces of the United States who is in attendance at an institution is thereafter transferred on military orders to a place outside this state where the member continues to serve in the Armed Forces of the United States, she shall not lose her resident classification so long as she remains continuously enrolled at that institution. (Education Code 68075).

A student who is a natural or adopted child, stepchild (under 18 years of age), or spouse who is a dependent of a member of the Armed Forces of the United States stationed in this state on active duty shall be entitled to resident classification until she has resided in the state the minimum time necessary to become a resident (Education Code 68074). During this time, the student should demonstrate intent to make California her permanent home.

Waiver of Nonresident Fees

Assembly Bill 540 (Firebaugh) provides for the waiver of non-resident tuition if: (1) the individual has attended a California high school for three or more years; (2) has graduated from a California high school or attained the equivalent; and (3) has filed an affidavit with the College if she is an alien without lawful immigration status. Contact the Admissions and Records office with any questions. See the following page for more information.



AB 540 AND AB 2000

California Nonresident Tuition Exemption
(For Eligible California High School Graduates)

Any student, other than one with a United States Citizenship and Immigration Services (USCIS) nonimmigrant visa status, who meets all of the following requirements, shall be exempt from paying nonresident tuition at the California Community Colleges, the University of California, and the California State University (all public colleges and universities in California).

Requirements

- The student must have
 - Attended a high school (public or private) in California for three or more years, or
 - Attained credits earned in California from a California high school equivalent to three or more years of full-time high school course work and attended a combination of elementary, middle and/or high schools in California for a total of three or more years and
- The student must have graduated from a California high school or attained the equivalent prior to the start of the term (for example, passing the GED or California High School Proficiency exam) and
- The student must file an affidavit with the college or university stating that he or she has filed an application to legalize his or her immigration status, or will file an application as soon as he or she is eligible to do so.
- Students who are nonimmigrants who are victims of trafficking, domestic violence, and other serious crimes who have been granted T or U visa status, under Title 8 of the United States Code, sections 1101(a)(15)(T) or (U) are eligible for this exemption
- Students who are nonimmigrants, other than those with T or U visa status as noted above, are not eligible for this exemption.
- The student must file an exemption request including a signed affidavit with the college that indicates the student has met all applicable conditions described above.
- Students eligible for this exemption who are transferring to another California public college or university must submit a new request (and documentation if required) to each college under consideration.
- Nonresident students meeting the criteria will be exempted from the payment of nonresident tuition, but they will not be classified as California residents. They continue to be “nonresidents.”
- The California Dream Act extends Cal Grant A and B Entitlement awards, Cal Grant C awards, Chaffee grants, and institutional financial aid to students that meet these criteria as well as the applicable criteria for eligibility for specific types of financial aid.
- AB540 does not provide federal student financial aid eligibility for undocumented students. These students remain ineligible for federal financial aid.

Procedures for Requesting this Exemption from Nonresident Tuition
California Community Colleges

Complete the California Nonresident Tuition Exemption Request (AB 540) form. Submit it to the Admissions Office in Sequoia 107. You may be required to submit additional documentation. Call the College Admissions Office (559) 730-3727 if you have questions or email helena@cos.edu. More information is available at the following links:
[http://www.cos.edu/Admissions/Admissions/Documents/California Nonresident Tuition Exemption Request \(AB540\).pdf](http://www.cos.edu/Admissions/Admissions/Documents/California%20Nonresident%20Tuition%20Exemption%20Request%20(AB540).pdf)
 or <http://www.cos.edu/Admissions/Admissions/Pages/Forms.aspx>

International Students

College of the Sequoias accepts international students each year. In order to keep a well-balanced representation of the various nations of the world, the number of students accepted from any one country may be restricted.

Transcripts of academic records and good health verification are required to qualify for admission. To be admitted, international students are required to qualify for admission. International students are required to achieve a score of at least 500 (173 for computerized test; 61 IBT) on the written Test of English as a Foreign Language (TOEFL), which is administered in their own country or at a test center in the United States. The international student's annual tuition fees of approximately \$7,200 (for those students enrolled in 15 units each semester) are \$211 per unit, the same as for other nonresident students. International and nonresident students must also pay the resident tuition of \$46 per unit (subject to change) which has been included in the \$7,200 annual tuition fee listed above. A \$100 Application Fee must be paid upon application to the College. Payment should be by U.S. bank draft or money order and must be received before the Form I-20 will be issued by the College. Tuition for subsequent semesters will be paid at the time of registration.

Students must complete an International Student Application (including financial documentation), TOEFL test (unless English is the student's native language), AND the online COS application. See International Student website for complete information.

All international students are required to locate and purchase medical insurance (must include repatriation and medical evacuation) the cost of which is approximately \$600 for the school year. Students must pay a \$200 SEVIS I-90 fee at www.fmjfee.com.

Federal and State financial aid or funding for scholarships is not available to foreign students. Working during the first year is not allowed and students must have sufficient funds to defray expenses. Each application must be accompanied by a certified financial statement indicating sufficient monies are available to pay college costs and living expenses.

Students on an "F" type visa are required to register for a minimum of 12 units and they must maintain the same scholastic standards as other students.

The deadline for application is April 1 for the fall and October 1 for the spring semester. Requests for application forms should be sent to the Matriculation Coordinator (monaf@cos.edu).

Transcripts

Applicants who have attended another college or university must file transcripts from each college or university attended. College of the Sequoias grants credit for lower division work from accredited colleges or universities.

Failure to file transcripts may delay or prevent admission or graduation. Transcripts should be sent directly from the high school or college to College of the Sequoias. All transcripts become the property of the College and will not be returned to the student or sent to other institutions.

Exception:

The high school transcript requirements may be waived for:

1. Those who have attended college.
2. Those who have attained a college degree.
3. Those who are 21 years or older.

Fee Assistance

The California Legislature has made funds available to low-income students who are California residents and desire to attend a community college, but who are prevented from doing so by the mandatory enrollment fee. The Board of Governor's Financial Assistance Program provides several ways to help lower-income students pay the enrollment fee. For eligibility information, please go to www.cos.edu/financial_aid, or contact the Financial Aid Office located in the Sequoia Building.

Fees and Expenses

Fee assistance is available to eligible students. Eligibility information may be obtained from the Financial Aid Office.

Student Senate Representation, ID Card, Fees (ABF, Transit, Student Center)

Students can obtain a photo identification card in the Student Activities and Affairs Office. The first ID card is free. A \$5.00 replacement fee will be charged if a student needs to replace the first card. In order to obtain an ID card, students will need to show a photo ID and know their Banner number. Students can purchase the Activity Benefits Fee Sticker for \$15.00 per semester which entitles them to all the privileges of the Associated Student Body membership, including local merchant discounts.

A student representation fee of \$1.00 per semester (for students enrolled in six (6) or more units) is charged. A waiver of this fee can be obtained for religious, political, moral, or financial reasons. The Representation Fee is an includable cost in student budgets for students receiving federal and/or state financial aid benefits.

A Student Center fee will be charged to all students. The fee is \$1.00 per unit up to a maximum of \$5.00 per semester.

A transit pass is an identification sticker (attached to the front of the COS Student ID card) that grants a student permission to take the bus to and from COS. Each student is charged a transportation fee (\$9 for students with 5 or fewer units; \$10 for students with 6 or more units), which provides students with

unlimited ridership on fixed bus routes for Tulare County Bus Service (excluding Sequoia Shuttle) and Kings Area Rural Transit fixed routes. Tulare County bus service will include the following transit providers: City of Visalia (Visalia Transit, Visalia Towne Trolley), City of Tulare (Tulare Intermodal Express), City of Dinuba (Dinuba Area Regional Transit/Dinuba Connection), City of Porterville (Porterville Transit), the County of Tulare (Tulare County Area Transit) transit services, and Kings Area Rural Transit (KART). The transportation fee is paid at the Cashier's Office in the Sequoia building. After payment, students take the receipt to the Student Activities and Affairs Office to obtain the transit pass.

Enrollment

An enrollment fee of \$46.00 per unit is charged to all students. An enrollment fee of \$23.00 is charged per ½ unit. The nonresident fee is an additional \$211 per unit.

Health Fee

A mandatory health fee is charged each semester to all COS students enrolled in classes for units or who are repeating a class under the Course Audit Option. The health fee is \$19 for the Spring and Fall semesters and \$16 for the Summer semester. Fee waivers are available for religious reasons. The health services fee helps support student health services, including student accident insurance.

Materials Fees

A materials fee may be levied in certain courses approved by the Board of Trustees. Fees vary and are noted in the Schedule of Classes. **Materials fees are refunded to students who completely withdraw from class BEFORE the semester begins or if the class is cancelled by the College.**

Matriculation Policies

Matriculation is a process that assists students in planning, choosing and achieving educational and career goals. It begins with applying for admission and ends when the student completes the expressed goal. The purpose of matriculation is to ensure access to appropriate programs and courses offered by the College and to facilitate successful completion of student educational objectives. Through a coordinated program between instruction and support services, the College promotes and sustains efforts to help students achieve their goals.

Matriculation is a partnership between the student and the community college. It comprises mutual responsibilities and agreements for both partners. Any student who enrolls in credit classes for the purpose of realizing an educational or career goal is considered a matriculant.

Matriculation brings the student and the District into agreement regarding the student's educational goal through the District's established programs, policies and requirements.

The agreement is implemented by means of the student educational plan.

A. Each student, in entering into an educational plan, will do all of the following:

1. Express at least a broad educational intent upon admission;
2. Declare a specific goal no later than the term after which the student completes 15 semester units of degree applicable credit coursework;
3. Diligently attend class and complete assigned coursework;
4. Complete courses and maintain progress toward an educational goal;
5. Complete a student educational plan;
6. Complete the COS Placement Test or other assessments;
7. Participate in orientation;
8. Discuss educational/vocational choices and class selections with a counselor prior to registration; and,
9. Seek support services as needed and complete courses to maintain progress toward an educational goal.

B. Matriculation services include, but are not limited to, all of the following:

1. Processing of the application for admission;
2. Orientation and pre-orientation services designed to provide to students, on a timely basis, information concerning campus procedures, academic expectations, financial assistance, and any other appropriate matters;
3. Assessment and counseling upon enrollment, which shall include, but not be limited to, all of the following:
 - a. Administration of assessment instruments to determine student competency in computational and language skills;
 - b. Assistance to students in the identification of aptitudes, interests and educational objectives, including, but not limited to, associate degrees, transfer, and vocational certificates and licenses; and,
4. Referral to specialized support services as needed.
5. Advisement concerning course selection.

The District shall not use any assessment instrument except one specifically authorized by the Board of Governors of the California Community Colleges.

All students who are deemed matriculants are required to participate in the matriculation activities. Non-exempt students may request exemption status by completing a form and presenting their case to the Counseling Office. Students who are exempt based upon the Exemption Criteria listed below are welcome to request any services or activity from the respective departments.

At College of the Sequoias, we believe that a process of assessment, orientation and counseling/advisement, called matriculation, will help students plan and achieve the student's goals in college. The student may choose not to participate in parts of this process if he meets any of the exemption criteria. In addition, if a class has a prerequisite or corequisite and the student has not been through the assessment process, the student may be blocked from enrollment.

Assessment - All new students or students wishing to enroll in a course with a math or English prerequisite, unless exempted, are required to take placements tests in order to enroll in appropriate English and math classes.

Orientation - All new students are expected to participate in an orientation to COS services and educational programs. Orientation content will be determined and updated by findings from satisfaction surveys and focus groups from randomly selected students who have completed orientation.

There will be three available options for students to fulfill their orientation requirement:

1. Online, interactive orientation.
2. First Giant Step Orientation to be held just prior to the beginning of the Fall semester and will consist of a large group general session followed by small group breakout sessions for the following areas:
 - a. General college information;
 - b. Educational program review: certificates and degrees;
 - c. Graduation requirements;
 - d. Transfer General Education requirements with online resource information;
 - e. Campus tours of support services;
 - f. Distance access skill development for college website;
 - g. Student support cohorts for follow-up interventions during the semester with advisors;
 - h. Registration for first semester classes.
3. Face-to-Face Orientation during the first two weeks of Fall and Spring semester.

Students completing one of the Orientation options (listed above) are enrolled in IS 220 (Orientation) and will receive .5 unit of credit for the process and will be billed accordingly.

All students will be able to register for classes their first semester but must take Orientation prior to registering the second semester at COS.

Counseling - New students must see a counselor before registering for their second semester. This provides the new students with some flexibility in meeting the enrollment requirements. Returning students are encouraged to see a counselor prior to registration. Counselors will recommend appropriate courses based on assessment results, major and goal.

EXEMPTION CRITERIA

Any student who has completed an associate degree or higher is exempt from the orientation, assessment and counseling requirements. However, all students are required to meet course prerequisites, which may require placement testing.

Additional exemption criteria are as follows:

Assessment Exemption: (Note: Students receiving Veterans' educational benefits must take the appropriate placement tests before enrolling in remedial (300-level) Math or English courses.)

COS does not accept placement test results from other colleges unless the tests are the same as used at COS. All placement test cut-off scores are validated against COS courses per Matriculation regulations.

- A. **Math Test:** Students are exempt from the Math Test in the following circumstances:
 1. Not enrolling in a math class or a class that lists a math prerequisite and/or advisory AND student is not working toward a certificate, degree or transfer program; or
 2. Enrolling in a Pre-Algebra Math 360; or
 3. Presenting a valid college transcript demonstrating successful completion (grade "C" or higher) of math courses equivalent to courses offered at COS; or
 4. Presenting a valid score report reflecting a score of 4 or 5 on the AP Calculus AB, or a score of 3, 4, or 5 on the AP Calculus BC, or the AP Statistics Exam.
 5. Presenting CSU EAP score report indicating "Ready for CSU college-level math course."
- B. **English Test:** Students are exempt from the English Test in the following circumstances:
 1. Not enrolling in an English class or a class that lists an English prerequisite and/or advisory and not working toward a certificate, degree or transfer program; or
 2. Presenting a valid college transcript demonstrating successful completion (grade "C" or higher) of English courses equivalent to courses offered at COS; or
 3. Presenting a valid score report reflecting a score of 3, 4, or 5 on the AP Language Composition or the AP Literature and Composition test.
 4. Presenting CSU EAP score report indicating "Ready for CSU college-level English course."

Orientation Exemption: Students are exempt from the orientation requirement if:

1. Previously participated in a COS orientation; or
2. Transferring to COS from another college; or
3. Enrolling in 6 units or less and have no plan to obtain a degree, certificate or participate in a transfer program. It is highly recommended that students who qualify for an exemption participate in the online Orientation as a guest.

Counseling Exemption: (Note: Students receiving Title IV Financial Aid and/or Veterans' educational benefits are not exempt from counseling requirement.)

Students are exempt from the counseling requirement if:

1. Transferring to COS from another college; or
2. Enrolling in 6 units or less and have no plan to obtain a degree, certificate or participate in a transfer program.

EXEMPTION PROCEDURES

Any student who is considered non-exempt from the matriculation services by District criteria (mentioned previously), yet wishes to be considered for exemption for one or more of the activities, shall be directed to the Admissions and Records Office.

Formal Procedure:

1. The student can acquire the Matriculation Exemption Form from the Admissions and Records Office.
2. The student must return the form to the Admissions and Records Office.
3. The staff will review forms within 24 hours of submission.
4. The student may file an Appeal/Grievance Form requesting a hearing from the Matriculation Appeal/Grievance Committee within 10 working days of submission if the student is dissatisfied with the exemption status.

An appeal/grievance may be filed with the Matriculation Coordinator under the following situations:

1. If a student feels entitled to any matriculation service or program to which he has been denied access; and/or
2. If a student feels that any matriculation procedure is being applied in a discriminatory manner.

Formal Procedure:

1. The student must complete the form and submit it to the Matriculation Coordinator.
2. Within ten working days, the Matriculation Coordinator and supervisory dean will review the case with the student.
3. If the student is still dissatisfied with the resolution, the student can request a hearing from the Matriculation Appeal/Grievance Committee within 10 additional days to review the Appeal Grievance.

Nonresident Tuition Fees

The nonresident fee for the academic year 2016-2017 is \$211 per semester unit, plus applicable enrollment fees payable each semester upon registration. The nonresident tuition fee for foreign students is \$200 per semester unit and when the student is both a citizen and a resident of a foreign country, a \$100 processing fee must accompany the application which is deducted from the tuition fee at the time of enrollment, plus all applicable enrollment fees. Guidelines and regulations for

fee refunds for the nonresident student are the same as for all other students.

Note: Nonresident fees are subject to change annually.

IMPORTANT NOTES:

1. All fees are mandated by the State and are subject to change without prior notice.
2. Any increase in fees after the student registers will be charged and billed accordingly.

Parking Fees (Optional)

Students wishing to park on campus must pay a fee. Parking permits are purchased on a semester basis. Spring and Fall permits are \$25.00 per semester for both full-time and part-time students. Motorcycle and moped parking is free in designated areas. CSU Fresno students may use their Spring or Fall permit from CSU Fresno or purchase a COS permit for \$25.00.

Students are charged a \$10.00 fee for a summer parking permit. Permits may be purchased online at <http://sequoias.thepermitstore.com>.

Students not wishing to purchase a semester parking permit may purchase one-day parking passes for \$2.00 from the dispensers located at the following locations:

Visalia Campus: Parking Lots 1, 3, 4, 6, 7 and 9.

Hanford Campus: Breezeway between the Educational and Public Safety Buildings and Lot 2.

Tulare: Lots 1, 2 and 3.

If a permit machine is malfunctioning, please contact District Police at (559) 730-3999. It is your responsibility to obtain a permit prior to parking.

IMPORTANT NOTES:

1. Purchase of a parking permit does not guarantee a space will be available.
2. The District is not responsible for losses due to theft or damage.

Student Center Fee

The Student Center fee is designated for the sole purpose of supporting the Student Center and is charged to all students taking classes at College of the Sequoias. The fee is not to exceed \$5.00 per semester. The Student Center fee is an eligible tax credit fee (reportable on IRS form 1098T) if you were charged. An academic year consists of fall and spring semesters. It does not include summer session.

Student Center Fee Exemptions

The Student Center Fee shall not apply to a student enrolled in non-credit courses or a student who is a recipient of the benefits under the Aid to Families with Dependent Children State Supplementary Program, or the General Assistance program. To have the fee waived, a student must provide documentation of participation in these programs through the Financial Aid Office prior to registration.

Student Representation Fee

Those students with six units or more units are charged \$1.00 per semester.

Textbooks and Supplies

Textbooks and school supplies average approximately \$400 per semester. These costs, however, vary according to the student's major. New and used textbooks and essential supplies may be purchased at the COS Bookstore.

Transit Fee

The Transit Fee was voted in by the student body. It is a benefit to all students to ride the city bus for an entire semester just by showing the student ID with the current transit sticker. It is not a fee that can be waived. Students with five units or less will be charged \$9.00. Students with six or more units will be charged \$10.00.

Payment of Fees

Payment may be made by credit card (Visa, Master Card, American Express or Discover Card), cash, check or money order. Payment over the Web is only by credit card. Payment by credit card, check, money order, agency payment (Department of Rehab, financial aid), or by any other method may occur in person at the Cashier's Office or at the Hanford Center. Credit card purchases may be subject to pre-approval. The following policy applies when payment is made by personal check:

1. Check is for the amount due only
2. Must provide photo identification
3. Imprinted checks only
4. In-state checks only
5. No personal two-party checks
6. The non-sufficient funds check charge is \$25.00 plus customer bank charge and will be added to all returned checks

Books may also be purchased by Master Card or Visa. Students are encouraged to purchase books after attending the first class session.

To help you meet your educational expenses, College of the Sequoias is proud to offer Nelnet as a convenient budget plan. This is not a loan program. If you have no debt, there are no interest or finance charges assessed, and there is no credit

check. The cost to budget your interest-free monthly payment plan is a \$15.00 per semester, nonrefundable Nelnet Enrollment Fee. For more information, visit our website, www.cos.edu; look for "Admissions," then "Payment Plan," or contact our Cashier's Office.

Refund Policy

Enrollment and health fees for students who reduce units or completely withdraw (not including short-term classes) from college prior to the end of the SECOND WEEK OF INSTRUCTION will be as follows:

Enrollment and Health Fee Refunds

If fees were paid with a credit card, refunds will be applied to the same credit card, except for the Higher One debit card. If fees were paid with a Higher One debit card, a refund check will be mailed.

Students will be charged a \$5 handling fee on enrollment credit refunds, or the refund/credit balance can be carried to the following semester to avoid the \$5 handling fee.

Petitions for reimbursement will be processed every two (2) weeks.

No refunds will be given for classes dropped after the first two (2) weeks of a fall/spring semester, the first two (2) days of a summer session, or the first day of a short-term class.

No refunds for material fees will be given unless the class is dropped prior to the first day of the semester, or prior to the first day of a short-term class.

For questions regarding refunds on fees, contact the Cashier's Office at (559) 730-3956.

Parking Fee Refunds

Parking refunds will be available to students withdrawing from school prior to the end of the second week of instruction. Students withdrawing from school after the second week will not receive refunds.

- A \$3 service fee will be deducted from all permit refunds
- Parking permits must be returned to the Cashier's Office before refunds will be processed.
- A refund check will be mailed in 6-8 weeks.
- Permits must be picked up as soon as purchased as a limited number will be issued.
- Lost permits may be replaced at the same cost as the original purchase.

Scholastic Regulations

The scholastic average is obtained by dividing the total number of grade points by the total number of units for which the student was registered. Grade points are assigned as follows:

- Grade A – receives 4 points per unit
- Grade B – receives 3 points per unit
- Grade C – receives 2 points per unit
- Grade D – receives 1 point per unit
- Grade F – receives 0 points per unit

Satisfactory scholarship means at least a “C” (or 2.0) average. To achieve at least a “C” (or 2.0) average, students must have a minimum of twice as many grade points as they have units attempted.

Transfer Students

Any student transferring from another college shall be subject immediately to these same scholastic regulations. Transfer students must supply official transcripts from all other colleges attended and meet with a counselor to evaluate and create an education plan.

Scholastic Honors

Special recognition is granted to top scholars each semester. The President of the College acknowledges, on the Dean’s List, those full-time students who attain a semester and cumulative grade point average of 3.0 (B) or better. In addition, he also recognizes on the President’s Honor List those full-time students who attain a semester and cumulative grade point average of 3.5 or better. Qualification for either honor requires enrollment in a minimum of twelve units with a letter grade. A record of these accomplishments becomes a part of the student’s permanent scholastic record.



Academic Regulations and Policies

Academic Freedom

Sequoias Community College District is committed to student learning and success. The District recognizes that protecting academic freedom is essential to achieve this mission. The District further recognizes that academic freedom is included within the freedom of expression and is necessary to the pursuit of knowledge within academic disciplines. These freedoms are essential elements of teaching and student learning.

As a form of freedom of expression, academic freedom exists within the general framework of the United States Constitution, the California State Constitution, requirements of the California Education Code, California Community College regulations, District policy, and official course descriptions. This freedom of expression shall be maintained in all media (printed, oral, visual, and electronic) and in all interactions among students, faculty, staff, and administration, subject to applicable law. All faculty members shall enjoy the protections offered by this policy. No faculty member shall be disciplined, reassigned, or have his assignment terminated for any reason that violates the protections of this policy.

All faculty members shall be free to pursue instruction, grading, scholarship, policy discussions, and public discourse in an environment free of intimidation and censorship. All faculty members shall exercise their academic freedom in a manner that promotes the District's mission and that abides by the Institutional Code of Ethics (AP 3050). The merit of academic ideas, theories, arguments, and views shall be measured against the established standards of relevant academic and professional organizations.

Academic freedom includes freedom of inquiry and instruction for every faculty member, including freedom in presenting and discussing subjects related to his academic discipline. Academic freedom also includes, but is not limited to, freedom to:

1. Inquire about, present, and explore difficult and controversial material that is relevant to the official course outline of record;
2. Express differences of opinion with and among students, faculty, staff, and administration on academic matters;
3. Demonstrate, teach, and defend critical thinking skills and intellectual honesty.

Every faculty member shall have the freedom to organize or participate in campus events, and the responsibility to do so in a manner consistent with the District's mission, the Institutional Code of Ethics, and the established standards of relevant academic and professional organizations. (AP 4030)

Every faculty member is a member of a learned profession and shall have the freedom to use his professional scholarship, and present this scholarship in any academic discourse.

Attendance

Course start times are printed on your Banner Web Student Schedule and are also posted on the COS website. Students are expected to be in class on time and to remain for the entire class period. Classes are not automatically dismissed in the absence of the instructor. Classes are cancelled only by a representative of the administration. If a class is cancelled, a cancellation notice is posted on the door of the room where the class meets. A notice is also posted near the top of the COS webpage (www.cos.edu) under "Cancelled Classes."

Students are expected to attend all class meetings of their courses. When a student is forced to be absent, the reason for the absence should be reported to the instructor as soon as possible. Contact information for each instructor is provided on the course syllabus. Students are expected to make up any course work missed during their absence.

Class Cancellations

Courses listed in the Schedule of Classes are subject to cancellation based on low enrollment or lack of staffing. If a class is canceled, fees will automatically be refunded and every effort will be made to reschedule students to meet their needs. Early registration and attendance at first class meetings will help ensure continuance of scheduled classes. (Administrative Procedure 4071)

Class Wait Lists

During online registration, if a student tries to register for a class that is full, she will be given the option to sign up on the Wait List for that class — as long as there are available spots on the Wait List. If seats become available, those on the Wait List will be registered for open seats in the order they are on the list. Being on the Wait List does not guarantee a seat in the class.

If a student tries to register for a class that is full, she will have automatic access to the Wait List. The closed class will appear in the Registration Errors section of the Web registration screen. The system will display the message "CLOSED – Waitlisted – 00#." The number appearing after the word "Waitlisted" indicates the number of people already on the Wait List. Click the Action drop-down menu, choose Wait List, and click the Submit Changes button to be added to the Wait List. If the Wait List is full, the message will simply say "CLOSED."

When there are Wait List openings, anyone can get on a Wait List. However, a student is eligible to remain on the Wait List only if: she meets the class prerequisites, the class time does not conflict with another class in which she is already registered or wait listed, she has no repeat errors, no holds on her record, or the class units will not exceed the maximum allowed. Be aware: if a student puts herself on a Wait List and any of these errors occurs when the nightly processes move students into classes from the Wait List, she will be dropped from the wait list. Also, she cannot be on a Wait List for another section of a course in which she is already registered.

If a student is moved into a class automatically from the Wait List, she will be notified via email. Fees will be assessed when the student is “rolled” or registered into the class and must be paid within the 14-day payment limit. It is the student’s responsibility to monitor her schedule and to watch for email notification for any changes from the Wait List.

A student can add herself to the Wait List until the day before the first day of the semester or short-term class. Once the semester or short-term class begins, Wait Lists will no longer be accessible.

Course Audit Option

The Governing Board of College of the Sequoias has authorized the auditing of courses at the College. There is a \$15.00 fee charged for each unit unless the student is enrolled in classes to receive credit for ten (10) or more semester credit units. Students must also pay all health, materials and parking fees, if applicable.

Steps to Apply for a Course Audit:

1. After Census Day, when all students wishing to take the class for credit have enrolled, a student may apply to audit a course using the Application for Course Audit form.
2. Student completes the STUDENT portion of the form.
3. Student takes the form to the appropriate instructor to complete the INSTRUCTOR portion of the form which requires the instructor’s signature.
4. Student obtains an official or unofficial transcript which must be attached to the application.
5. Student takes the form to the Area Dean’s Office for approval which requires the Dean’s signature. The Dean will review the transcript to determine if the student has completed the course the maximum allowable number of times before approving the audit request.
6. Student takes the completed form with the appropriate signatures to the Cashier’s Office for final processing and payment.
7. Student takes a copy of the receipt of payment and a copy of the completed Application for Course Audit form to the instructor before being allowed into the class. Under no circumstances are students allowed to remain in a class without either registering for the credit course or presenting the instructor with evidence that the student has enrolled as an auditor and paid for the class. (AP 4070)

First Day Attendance for Credit Classes

To increase student success, no student may register late for a class unless the student is in attendance in the class he wishes to add on the first day of the semester for full-term classes. Students can be added after the first day at the discretion of the instructor.

1. Open registration will end at 11:59 pm on the day before the first day of classes, including sections that are not filled.

2. No open registration will be permitted during the first week of the term for term-length class sections that have available seats.
3. Students who wish to add a class must be in attendance on the first day of instruction in order to obtain an add code from the instructor. Students wishing to enroll in online courses must contact the instructor on the first day of instruction.
4. All add codes will expire 48 hours after the first meeting of the class.
5. If a student misses the 48 hour deadline he must obtain an add slip from the instructor.
6. Students must turn in the add slip by the end of the second week of the semester or register through the late add process.
7. Waitlisted students must be in continuous attendance in order to have priority over walk-ins for adding a class.
8. Only the instructor of record or designated instructor may issue an add code.
9. Students who are absent from the first meeting of the class without notifying the instructor prior to the first class meeting will be reported as a “No Show” on the class roster.
10. An instructor is not obligated to keep a student on the roster if the student does not attend the first class meeting even if the student has previously contacted the instructor of his absence.

Course Repetition

Students may repeat credit courses at College of the Sequoias under specific circumstances as outlined in COS Board Policy 4225 and COS Administrative Procedure 4225. There are three general circumstances when a course may be repeated:

1. When a course is specifically designed as repeatable.
2. When a student earns a substandard grade (“D”, “F”, “NC”, “NP”) or a withdrawal (“W”) is assigned, and the student wants to retake the course to earn a passing grade.
3. When a student meets the criteria for special circumstances.

Course Repetition to Alleviate Substandard Academic Work

Board Policy 4225 authorizes two (2) repetitions of a course in which a student earns a substandard grade (D, F, NC, NP) or was assigned a withdrawal (“W”). Students do not need to submit a Petition to Repeat a Course when repeating a course for the first time after receiving a final course grade of D, F, NP, NC, or W. If the student again earns a substandard grade or withdraws from a class after the first repeat and wishes to repeat the course a second time, he must be granted prior approval of a Petition to Repeat a Course by the Dean, Student Services. The first two substandard grades will be excluded in computing the student’s GPA. (Title 5, Section 55042).

When permission to repeat is required, students may secure a Petition to Repeat a Course from the Admissions and Records Office or website and submit it for review to the Dean, Student

Services. The decision of the Dean, Student Services, may be appealed to the Vice President, Student Services. Students not meeting the above criteria are blocked from repeating courses at the time of registration.

Special Circumstances

All requests to repeat courses based on special circumstances require permission. Students may secure a Petition to Repeat a Course from the Admissions and Records Office (Room 107) or the COS website and submit it for review to the Dean, Student Services. The decision of the Dean, Student Services, may be appealed to the Vice President, Student Services.

- A. Extenuating Circumstances: Students may petition to repeat a course where a previous satisfactory or substandard grade was earned, one time, for extenuating circumstances based upon verified cases of accidents, illness, or other circumstances beyond the control of the student (Title 5, §55045). The District may permit a third repetition of a course in an effort to alleviate prior substandard academic work, provided the District finds that there are extenuating circumstances which justify an additional repetition. Enrollment in the course must be requested and approved through the petition process (these petitions are reviewed on a case-by-case basis by the Dean, Student Services).
- B. Significant Lapse of Time: Students may repeat a course, one time, where a satisfactory grade was earned after a lapse of no less than 36 months, if one of the following conditions is met:
1. The District has properly established a recency prerequisite for a course or program pursuant to Title 5 §55003.
 2. Another institution of higher education to which the student seeks to transfer has established a recency requirement which the student will not be able to satisfy without repeating the course in question. Pursuant to petition, the District may allow repetition where less than 36 months have elapsed if the student documents the repetition is necessary for the student's transfer to the institution of higher education.

If the District determines that a student needs to repeat an active participatory course, as defined by Title 5 §55000, in physical education or visual or performing arts, or an active participatory course that is related in content, due to significant lapse of time, that repetition shall be counted in applying the limit on repetitions set forth in Title 5 §55040(c) except that, if the student has already exhausted the number of repetitions permitted, an additional repetition due to significant lapse of time may be permitted or required by the District.

Enrollment in the course must be requested and approved through the petition process (these petitions are reviewed on a case-by-case basis by the Dean, Student Services).

Substandard grades may be excluded in computing the student's GPA.

- C. Variable Unit Open-Entry/Open-Exit Courses: Students may be permitted to enroll in variable unit open-entry/open-exit courses as many times as necessary to enable them to complete the entire curriculum of the course once. (Title 5 §55044)

Students may not repeat variable unit open-entry/open-exit courses unless:

1. The course is required for legally mandated training; or
2. The course is a special class for students with disabilities which needs to be repeated; or
3. Repetition of the course is justified by extenuating circumstances; or
4. The student wishes to repeat the course to alleviate substandard work.

Whenever a student enrolls in a physical education activity course offered for open-entry/open-exit, the enrollment will count as a repetition of the course.

When a course is repeated due to a significant lapse of time, the District may disregard the previous grade and credit when computing a student's grade point average.

- D. Cooperative Work Experience Education Courses: Students are allowed to repeat an occupational work experience course if only one course in a given field is offered and that course is not offered as a variable unit open-entry/open-exit course. Where only one work experience course is offered, students are allowed to repeat a cooperative work experience course as long as they do not exceed the limits on the number of units of cooperative work experience set forth in Title 5 §55253(a).

- E. Legally Mandated Training: Students are allowed to repeat a course when repetition is necessary to enable that student to meet a legally mandated training requirement as a condition of volunteer or paid employment. Students can repeat such courses any number of times, even if they received a grade of C or better; however, the grade and credit earned by the student each time will be included in calculations of the student's grade point average. Enrollment in the course must be requested and approved through the petition process. The student is required to certify or document that course repetition is legally mandated.

- F. Significant Change in Industry or Licensure Standards: Students may petition the District 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. Students can repeat such courses any number of times, even if they received a grade of C or better; however, the grade and credit earned by the student each time will be included in calculations of the

student's grade point average. Enrollment in the course must be requested and approved through the petition process. The student is required to certify or document that there has been a significant change in industry or licensure standards necessitating course repetition.

G. Repetition for Disability Accommodation: Students with disabilities can repeat a special class for students with disabilities any number of times when an individualized determination verifies that such repetition is required as a disability-related accommodation. Repetition of a special class is permitted to provide an accommodation to a student's educational limitations under the following circumstances: (Title 5, §56029 [a], [b], [c])

1. When continuing success of the student in other general and/or special classes is dependent on additional repetitions of a specific special class;
2. When additional repetitions of a specific special class are essential to completing a student's preparation for enrollment into other regular or special classes; or
3. 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 that goal.

H. Special Circumstances for Course Repetition for Disability Accommodation: The District may, upon petition by the student, permit a third repetition of a course in an effort to alleviate prior substandard academic work when an individualized determination that such a repetition is required as a disability-related accommodation for a student with disabilities as specified in Title 5 §56029.

Repeatable Courses

Activity Courses: Repeatable courses include courses where the student: meets course objectives by repeating a similar primary educational activity; builds on skills or proficiencies by supervised repetition and practice; and learns objectives via participatory experience in individual study or group assignments. As delineated in Title 5, §55041, the District will only designate the following types of courses as 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 must 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 within four years.
2. Intercollegiate athletics, as defined in Title 5, §55000, where enrollment in the course and courses that are related in content, as defined in §55000, is limited to no more than four times for semester courses. The District shall claim no more than 350 hours of attendance for each enrolled student in each fiscal year for each sport in which the student participates. Of the 350 hours of attendance, no more than 175 hours can be claimed for student enrollment in courses dedicated to the sport, and no more than 175 hours can be claimed for student enrollment in

courses that focus on conditioning or skill development for the sport (Title 5, §58161(d), §58162).

3. Intercollegiate academic or vocational competition, as defined in Title 5, §55000, where enrollment in the course and courses that are related in content, as defined in §55000, is limited to no more than four times for semester courses. This enrollment limitation applies even if the student receives a substandard grade or "W" during one or more of the enrollments in such a course or petitions for repetition due to special circumstances as provided in Title 5, §55045.

The District will identify the courses which are to be repeatable and publish this list in the General Catalog and the Course Outline of Record. (Title 5, §55041).

Designation of repeatable courses and the number of times they may be taken for credit are as follows:

"AB" may be taken 2 times for credit

"AC" may be taken 3 times for credit

"AD" may be taken 4 times for credit

These courses, however, may not be taken concurrently. Students will be blocked at the time of registration if they attempt to enroll in an unauthorized course.

All enrollments in repeatable courses will count towards total allowable repetitions. A student will be considered "enrolled" any time he receives an evaluative or non-evaluative symbol on his record. The grade received for each enrollment will be included for computing the student's GPA.

Students enrolled in courses the permitted number of times will receive credit. A Course Audit Option (See AP 4070 - Auditing and Auditing Fees) is available for course attendance in repeatable courses once the repetition limit has been reached.

Students may enroll in activity courses in physical education, visual arts, or performing arts. Such courses may not be repeated for more than four semesters. This limit applies even if the student receives a substandard grade or "W" during one or more enrollments or if a student petitions for repetition due to extenuating circumstances.

In addition, all evaluative and non-evaluative grades count toward the four enrollment limitation and all grades and credits received count in computing the students GPA. The one and only exception is when a course is repeated pursuant to a significant lapse of time, the District may allow the previous grade and credit to be disregarded in computing the student's GPA.

Course Withdrawals - Limitation on Repeats

Please see AP 4228 regarding limitations on the number of times a student may repeat, withdraw from a course and receive a "W" on his transcript.

Finality of Grades/Student Records

When a course is repeated to alleviate a substandard grade, the most recent grade is used for the calculation of the grade point average (GPA).

Courses that are repeated shall be recorded on the student's permanent academic record using an appropriate symbol. Annotating the permanent academic record shall be done in a manner that all work remains legible, insuring a true and complete academic history.

With regard to students with disabilities (see G and H above), the District will allow the previous grade and credit to be disregarded in computing the student's grade point average (GPA) each time the course is repeated. (Title 5 §56029)

Courses that are Related in Content (CRCs)/ Families of Courses

Regulations governing the repetition of credit courses in the California Community College system have eliminated repeatability in Dance, Drama, Physical Education, Visual Arts, and most Music courses. Intercollegiate Athletics and some Music courses that are required for transfer programs are the only courses that are repeatable; all other courses previously offered as repeatable are offered as one-time enrollment courses.

While students will not, in most cases, be allowed to repeat active participatory courses in Dance, Drama, Music, Physical Education, and Visual Arts, they will still be allowed to enroll in a series of active participatory courses that are related in content (commonly referred to as a family of courses) a maximum of four times.

For example, all weight training courses are part of the "Weight Training Family." Repeatable courses that are related in content and taken prior to Fall 2013 will count toward the four-enrollment limitation. Therefore, the "Weight Training Family" includes the old PE 004AD and the new PEAC 074, 075, and 076. A student who previously enrolled in PE 004AD twice can only take two more courses in the family; a student who previously enrolled in PE 004AD four times may not take any additional courses in the family.

A family of courses may include more than four courses, but students are limited to a maximum of four courses in any family. Further, all grades, including "Ws," will count toward the four-course enrollment limitation and for computing the grade point average (GPA). Students can repeat Art, Dance, Drama, Music, and PE courses that are included in Families of Courses in which an "NP", "D", "F" grade was earned or "W" was assigned; however, all enrollments count toward the four-enrollment maximum for each family of courses.

The College has developed forty-seven (47) Families of Courses. The Families of Courses are listed in the catalog section entitled "Course Descriptions" - at the beginning of each discipline: ART, DANCE, DRAMA, MUSIC, PEAC.

Credit by Examination

Students may qualify for credit by examination for courses in the current COS catalog for which they appear to be reasonably qualified by training or experience, and for which they have not received previous college credit, attempted credit by examination, or ever enrolled in the course. The course for which the student needs a credit by examination must be one in which the content can be tested by examination in the opinion of the Division and of the assigned instructor.

Conditions and Requirements for Credit by Examination

1. Students must be currently registered and in good standing at COS. The student may not be currently enrolled in the course for which she is applying for Credit by Examination. Good standing is defined as not on probationary status. The student must have completed 12 units at COS prior to applying for Credit by Examination. Credits acquired by examination are not applicable to meeting of such unit load requirements as Selective Service deferment, Veteran's or Social Security benefits.
2. Students must file a petition for credit by examination to challenge a course with the Admissions and Records Office. Petitions are available from the Admissions and Records Coordinator.
3. Credit by examination will not be allowed if the student has received college credit for the course she is petitioning for credit by examination. Credit by exam will not be allowed for a course (i.e., Spanish 2) if the student has already completed or is currently enrolled in a more advanced course (i.e., Spanish 3) based on prerequisite sequencing.
4. Students must furnish strong proof to the satisfaction of the instructor, division chair, and the area dean that previous background experience or training would ensure a reasonable measure of success in the challenge. The examination cannot begin until the petition is approved. Notice of approval will be sent by mail to the student.
5. If the petition is approved, the paper(s), project(s) and examination or series of tests will be administered by the appropriate instructor as designated by the Dean.
6. The course, with units and letter grade assigned, shall be clearly annotated to reflect that credit was earned by examination and will be reflected in the student's cumulative grade point average. In no case will credit be awarded for more than one course in a sequence of courses. A maximum of 12 units may be earned through credit by examination. This limitation is waived in the case of nursing courses.
7. Once the student receives approval for Credit by Examination, the examination must be completed within the same semester unless extenuating circumstances are shown to justify an extension of time. In the event the examination is not completed within the semester approval was obtained, an NP grade will be assigned. If an NP grade is assigned, the student will not be allowed to challenge the same course again.

8. When the examination, paper(s) or project(s) is completed, the instructor will submit a letter grade (A-D, NP) commensurate with the quality of work submitted. Fees must be paid after the petition has been approved and before the examination is administered.
9. A nonrefundable processing fee of \$15 will be assessed for each credit by examination petition in addition to the appropriate enrollment and/or nonresident fees charged for each semester unit to be challenged.
10. The deadline to complete the petition process is as follows:

Fall Semester: First Monday in October
Spring Semester: First Monday in March

Credit by Exam will not be allowed after these dates. (Administrative Procedure 4235)

Dropping a Class/Withdrawals

Students who cannot continue in a class have an obligation to officially drop the class. All drops are processed on students' Banner Web accounts.

Drops processed prior to the end of the second week of the semester for full term courses, or on the second day for a summer semester, are not recorded on the student's transcript and students may petition for a refund through the COS Cashier's Office.

Drops processed for full term courses after the second week and through the tenth week of a spring or fall semester, or set date for each summer session, will result in a "W" recorded on the transcript and no refund.

It is the student's responsibility to drop a class in which he no longer wishes to be enrolled. Non-attendance does not release the student from this responsibility. Students can process all drops and complete withdrawals through their Banner Web accounts.

Limitation on Withdrawals

Students may repeat courses two (2) times in which standard grades (less than "C") were earned or a withdrawal ("W") is assigned (Board Policy 4225). However, in support of the College's philosophy of quality collegiate education and following the guidelines of Title 5 §55024(a)(9), the Board of Trustees has also limited the number of times a student may withdraw and receive a "W" notation from any course to two (2) times.

This limitation will not apply to students who withdraw prior to the end of the second week of a full semester course (second day for Summer Semester) and who do not receive a notation of "W" on their academic record.

Students who want to re-enroll in a course from which they previously withdrew and received a "W" notation in two prior semesters MUST submit a Petition to Repeat a Course, and have written approval from the Dean, Student Services, before

they can again register in that course. The form is available from Admissions and Records Office (Room 107) or the COS website.

A student who is a member of an active or reserve United States military service who has received orders may withdraw from a course. Upon verification of such orders, a withdrawal symbol (either "MW" or "W" may be assigned at any time after the second week (second day for Summer Session).

Military withdrawals shall not be counted in progress probation and dismissal calculations (Title 5 §55024).

Students withdrawing after the final drop date must bring documentation of approved extenuating circumstances (verified cases of accidents, illnesses, or other circumstances beyond the control of the student) to the Dean, Student Services. After consultation with appropriate instructor or, in the event the instructor cannot be contacted, the department chair or appropriate administrator, a "W" on the transcript may be authorized (Title 5 §55024).

Grading Procedures

All college work is measured in terms of both quantity and quality. The measure of quantity is the unit and the measure of quality is the grade point. Grades from the following grade scale shall be averaged on the basis of point equivalencies using the following evaluative symbols:

Symbol	Definition	Grade Point
A+	.....	4.0
A	..... Excellent	4.0
A-	.....	3.7
B+	.....	3.3
B	..... Good	3.0
B-	.....	2.7
C+	.....	2.3
C	..... Satisfactory	2.0
D+	.....	1.3
D	..... Less than satisfactory.....	1.0
D-	.....	0.7
F	..... Failing.....	0
P	..... Pass	
NP	..... No Pass	

Pass and No Pass grades are not counted in GPA.

Current term and cumulative total grade point averages are recorded on students' permanent academic records on file in Admissions and Records. Unofficial transcripts are available via COS Banner Web.

Why is COS using plus/minus grading?

Both the UC and CSU systems use plus/minus grading. Using plus/minus grading at COS reduces certain grade inequities that result with a grading policy that uses only base letter grades. Faculty also want to recognize student effort to improve a grade that falls short of the required whole letter grade.

Why is an A+ worth the same as an A?

The California Education Code defines a grading scale with no grade greater than a 4.0 in the determination of a student's GPA. The A+ grade, however, will be notated on the transcript.

Why is there no C-?

The California Education Code does not allow the reporting of a C- grade.

Are all COS professors going to use this system?

While the Academic Senate encourages faculty to adopt plus/minus grading, individual faculty members are free to assign grades that they believe best reflect the performance of their students. Professors determine how they grade at the start of each semester. Students who have questions should ask their professors about which grading scale they will be using.

Students may access their grades through logging into their Banner Web account (see www.cos.edu). A hard copy of grades may be obtained at no cost from the website (on any Web accessible computer or in the Student Services Lab). Semester grade reports are no longer mailed to students.

For purposes of grading and transfer to other collegiate institutions, it is necessary for the student to obtain a "C" average. "A" "B" and "C" are passing grades, corresponding to excellent, good and satisfactory. A "D" earns credit but is insufficient to fulfill local general education, major, and certificate course requirements. "F" is failure. A grade of "I" (incomplete) will be given at the discretion of the instructor in cases of extenuating circumstances (see below). The student is entitled to all grade points upon satisfactory completion of assignments within one year.

In any course of instruction for which grades are awarded, the instructor of the course will determine the grade to be awarded each student. The determination of the student's grade will be final in the absence of mistake, fraud, bad faith, or incompetence. "Mistake" may include, but is not limited to, clerical errors and errors made by an instructor in calculating the student's grade (Title 5 §55025). "Fraud" may include, but is not limited to, inaccurate recording or changing a grade by any person who gains access to grade records without authorization. In the case of fraud, bad faith, or incompetence, the final determination concerning removal or change of grade will be made by Vice President of Academic Services.

If the original instructor is not available; if the student has filed a discrimination complaint; or, if the District determines that it is possible there has been gross misconduct by the original instructor, the District shall make provisions for another faculty member to substitute for the original instructor (Title 5 §55025c).

If a grade must be changed due to an error in assigning a grade, error in withdrawing a student, inappropriate admission, etc., a "Petition for Modification of Student Records" must be com-

pleted. This form can be obtained from the Admissions and Records Office and must be completed by the instructor and approved by the Dean, Student Services. Procedures for modification of the student's records will include expunging the incorrect grade from the record (Title 5 §55025d).

This grade change procedure is intended to provide all parties with due process in the event of a disagreement or misunderstanding regarding classroom policies or grades. Students are encouraged to discuss informally any concerns they may have about class policies and course grades with their instructors before requesting more formal resolution of an issue.

If the concerns of the student cannot be resolved with the instructor, the student can ask for advice or assistance from the appropriate Division Chair and Division Dean, Academic Services. If still dissatisfied after meeting with the instructor and the Dean, the student may, within ten days following the meeting, file a grievance with the Vice President, Student Services. The detailed procedures for resolution at this level are found in Administrative Procedure 5503 - Student Rights and Grievance. If the grievance hearing is resolved in the student's favor, a "Petition for Modification of Student Records" is completed and processed.

Concerns about grades should be addressed as soon as possible in order to ensure availability of student and instructor records and to permit time for a formal appeal should one be necessary. Any formal efforts to resolve a grade dispute must occur within one year after the student has received the grade.

Grades: Final Examinations

Final Examinations of at least two hours are held in all subjects according to the schedule that is published by the Office of the Vice President of Academic Services each semester. No student will be excused from any final examination without the approval of the Vice President of Academic Services.

Grades: Incompletes

Incomplete academic work due to an unforeseeable emergency and/or for justifiable reasons (see Extenuating Circumstances), may result in an "I" symbol being entered in the student's record. The condition for the removal of the "I" shall be stated by the instructor on the "Incomplete" Grade Report form submitted at the end of the term. This form shall contain the conditions for the removal of the "I" and the grade assigned in lieu of its removal. A copy of this form must be given to the student with a copy on file with the Dean, Student Services until the "I" is made up or the time limit has passed. A final grade shall be assigned when the work stipulated has been completed and evaluated, or when the time limit for completing the work has passed.

The "I" may be made up no later than one year following the end of the semester in which it was assigned. The student should not re-enroll in the class. The "I" symbol shall not be used in calculating units attempted nor for grade points. Stu-

dents may petition for a time extension if there are extenuating circumstances by submitting documentation to the Dean, Student Services.

Grades: “Pass/No Pass” Grading

All students enrolled in the 300 series (course number) of classes are graded on an “A”, “B”, “C”, and “No Pass” basis.

The following courses are graded on a Pass/No Pass basis: Engl 123, 124, 125 and 126, IS 308, LIBR 425, PTA 160, PTA 161. Pass and No Pass grades are not counted in GPA. (Pass is equivalent to “C” or better.)

Grades: Report Delayed (RD)

The “RD” symbol is to be used when there is a delay in reporting the grade of the 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.

Independent Study

The purpose of an independent study is to provide an opportunity for students, under the direction of an instructor, to participate in advanced individualized studies to supplement existing courses. The independent study requires a minimum of 52.5 hours of academic work per unit.

Before a student may enroll, the student must have completed ALL beginning level courses offered at the District in the subject. Only in very unusual cases may students be enrolled in independent study without completing the beginning level courses.

Credit for Independent Study is accepted at California State Universities. Independent Study courses are accepted for the granting of transfer credit at a University of California (UC) campus contingent upon an evaluation of the course outline by a UC campus (maximum credit allowed is 3-1/3 semester units per term).

Application Procedure for Students

Students must follow the procedure below:

1. A student who has completed all beginning level courses and wishes to pursue a subject of interest must complete an Independent Study Agreement Form. A student must be currently registered at the College of the Sequoias District in one or more units before applying for independent study credit.
2. The student seeking independent study should outline his proposal and discuss it with an appropriate instructor. With the instructor’s approval, the student should then complete the Independent Study Agreement Form. Once the form is completed, the student should return it to the su-

pervising instructor. This approval process should be completed before the third week of the semester.

3. The form must then be signed by the instructor, Academic Dean and the Vice President, Academic Services, before the end of the third week of the semester.
4. If approved, the form is sent from the Office of Academic Services to the Admissions and Records Office and the course is entered on the student’s schedule of classes. Registration is complete at this point. A copy of the approved form is then sent to the student along with information regarding appropriate fees.
5. If disapproved, the reason for the disapproval is written (stated) on the form and returned to the instructor who approved the independent study. The instructor then notifies the student as to the reason for the denial.
6. Roll sheets are printed by the instructor.
7. At the end of the semester, grade reports are due in the Admissions and Records Office at the same time as those for regularly scheduled classes.
8. If the independent study project must continue beyond the semester’s end, a grade of “I” (incomplete) will be assigned to the student. An incomplete grade must be made up according to the stated procedure in Administrative Procedure 4233 and in the College Catalog.
9. A complete roster of all independent study students will be kept by semester for a given year and filed in the Admissions and Records Office. (AP 4101)

Prerequisites and Corequisites

Title 5 Matriculation Regulations (§55002(a)2D, §55003) state that students are entitled to enroll in any course for which they can meet necessary and valid pre- and corequisites.

A “prerequisite” means a condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program. Prerequisites shall be based on successful completion of an appropriate course (e.g., Math 230 with a “C” or better prior to attempting Math 154 or 021) or the college’s assessment process using multiple measures.

A “corequisite” is a condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course (e.g., Math 65 in conjunction with Engineering 1).

An “advisory on recommended preparation” means a condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program (e.g., GD 160 with a “C” or better prior to attempting GD 161).

A “limitation on enrollment” is similar to a prerequisite because both are conditions of enrollment that a student is required to meet for enrollment in a course or educational program. A limitation on enrollment differs from a prerequisite because it is not based on the successful completion of a course or the College’s assessment process using multiple measures (e.g., public performance courses requiring an audition).

Challenge Process:

Any student who does not meet a prerequisite or corequisite or who is not permitted to enroll due to a limitation on enrollment but who provides satisfactory evidence may seek entry into the course as follows:

1. If space is available in a course when a student files a challenge to the prerequisite or corequisite, the District shall reserve a seat for the student and resolve the challenge within five (5) working days. If the challenge is upheld or the District fails to resolve the challenge within the five (5) working day period, the student shall be allowed to enroll in the course.
2. If no space is available in the course when a challenge is filed, the challenge shall be resolved prior to the beginning of registration for the next term and, if the challenge is upheld, the student shall be permitted to enroll if space is available when the student registers for that subsequent term.

Grounds for challenge are as follows (per Title 5 §55003(p)):

- a. The prerequisite or corequisite has not been established in accordance with the district's process for establishing prerequisites and corequisites.
- b. The prerequisite or corequisite is in violation of Title 5 §55003.
- c. The prerequisite or corequisite is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner.
- d. The student has the knowledge or ability to succeed in the course or program despite not meeting the prerequisite or corequisite.
- e. The student will be subject to undue delay in attaining the goal of his or her educational plan because the prerequisite or corequisite course has not been made reasonably available.

Multiple and Overlapping Enrollments

Multiple Enrollments (enrolling in two or more sections of the same credit course during the same term) will not be permitted unless the length of the course provides that the student is not enrolled in more than one section at any given time. This would apply to short term courses taught within the same term.

Overlapping Enrollments (enrolling in two or more courses where the meeting times for the courses overlap) will not be permitted unless a Time Conflict Petition has been submitted with all appropriate authorizations.

Sequoias Community College District discourages students from enrolling in classes where the meeting times overlap. Therefore, no student may enroll in two or more courses where the meeting times for the courses overlap, unless the following conditions have been satisfied:

1. The student provides a valid justification, other than scheduling convenience, of the need for an overlapping schedule on the Time Conflict Petition form.
2. The student and Instructor agree in writing as to how the overlapping time will be made up under the supervision of the instructor of the course. The time must be made up during the same week as the time missed.
3. The appropriate instructor, Area Dean, and the Vice President of Academic Services approve and return the Time Conflict Petition to the student. It is the student's responsibility to take the petition to the Admissions and Records Office to be given an override for the unregistered course. Once processed, Admissions and Records will notify the student by phone call or through COS email. It is the student's responsibility to go through the required steps to register for the course once the time conflict override has been processed.

The instructor will track hours of attendance of the student as agreed and submit this documentation to the appropriate Dean's Office for attachment to the Time Conflict Petition. The Petition and documentation describing the justification for the overlapping schedule and showing that the student made up the hours of overlap in the course will then be retained by the appropriate Dean's Office for any auditing purposes. (AP 4226)

Academic Renewal

A student may petition the Academic Review Board to have "F" grades disregarded from inclusion in the unit totals and grade points as listed on the permanent record. A maximum of 12 units can be renewed. Prior to petitioning for the renewal of an "F" grade, conditions (1), (2) and (3) below must be met.

1. Fifteen or more semester units of lower division college work with a 2.5 ("C") or better grade point average at College of the Sequoias or another accredited institution of higher learning must be completed following the semester in which the "F" grades were earned.
2. At least three years must have elapsed since the "F" grades were received. Instructors who originally assigned the grades must give written approval for their forgiveness. In cases where the faculty members cannot be located, the final decision on forgiveness of "F" grades will reside with the Dean, Student Services.
3. Decisions of the Dean, Student Services, may be appealed to the Vice President, Student Services.

Forms to petition for academic renewal are available in the Admissions and Records Office. The "F" grade for which academic renewal is approved remains on the student's transcript per Title 5 regulations.

Progress Probation, Dismissal and Readmission

Academic Probation

A student who has attempted at least 12 cumulative semester units as shown by the College's official academic record shall be placed on academic probation if the student has earned a grade point average (GPA) below 2.0 in all units which were graded on the basis of the grading scale outlined in AP 4230 (Title 5, Section 55031).

A student on academic probation:

1. Is limited to 13 units or to a maximum load recommended by the student's counselor.
2. Shall not be dismissed after his third semester of below satisfactory work (below 2.0 semester cumulative GPA) if during that third semester and every subsequent semester he maintains a 2.0 semester GPA until his cumulative GPA is above the probationary level.

A student on academic probation for a grade point deficiency shall be removed from probation when the student's accumulated grade point average is 2.0 or higher (Title 5, Section 55032).

Computation process is: GPA equals total grade points earned divided by total units attempted with letter grade.

Notification of Probation

Each student is entitled to be notified of his academic difficulty and the availability of College support services to respond to the academic difficulty before the student is dismissed. Notification will consist, at a minimum, of the following: At the end of the semester in which the student's grade point average falls below 2.0 in all units attempted, a notice that the student is on probation shall be sent to the student informing him that he is on academic probation. "All units attempted" is defined as all units of credit for which the student is enrolled in at the community college that he attends.

At the end of the third semester on which the student is on academic or progress probation, a notice that the student is subject to dismissal will be sent to the student informing him that he is subject to dismissal.

The letter notifying the student of probation will cover, at a minimum, the significance of being on probation and description of the services available.

Progress Probation

A student who has enrolled in a total of at least 12 semester units as shown by the College's official academic record shall be placed on progress probation 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

(50) percent (Title 5, Section 55031). A student on progress probation is limited to 13 units or to a maximum load recommended by the student's counselor.

After the second progress probation, students who satisfactorily complete fifty (50) percent or more of units registered each semester will continue on progress probation rather than be dismissed (even if insufficient units have been completed to remove them from probation). If students complete forty-nine (49) percent or fewer of units enrolled in any semester after the second progress probation, they will be subject to progress dismissal.

A student on progress probation because of an excess of units for which entries of "W," "I," "NC," and "NP" are recorded shall be removed from probation when the percentage of units in this category drops below fifty (50) percent. Computation process is: Progress Percentage equals total units with "W," "I," "NC," and "NP" divided by total units enrolled.

Appeal of Probation

The student has the right to appeal a placement on probation if he believes an error has been made. The student may obtain a Petition to Appeal Probation from the Admission and Records Office and file it with Dean, Student Services, within 30 days after being placed on probation. If the student fails to file a Petition to Appeal Probation with the 30 day time limit, the student waives all future rights to appeal the probation action. It is the student's responsibility to indicate on the Petition a clear statement of the error made and to provide evidence supporting the assertion. Petitions will be reviewed by the Dean, Student Services.

The student will be continued on probation until the Dean decides on the student's appeal. The decision of the Dean will be communicated to the student in writing within 10 days of receipt of the student's appeal. The student may appeal the decision of the Dean in writing to the Vice President of Student Services within 10 working days of the date of notification of the decision of the Dean. The decision of the Vice President of Student Services is final.

See AP 4255 for Disqualification, Dismissal, and Readmission.

Academic Dismissal

A student on academic probation shall be subject to dismissal if the student earned a cumulative GPA of less than 2.0 in all units attempted in each of the three consecutive semesters which were graded on the basis of the grading scale. Dismissals occur only after the Spring semester.

Notification of Academic Probation/Dismissal

Each student is entitled to be notified of his academic difficulty and the availability of college support services to respond to the academic difficulty before the student is dismissed. At the end of the semester in which the student's grade point average

falls below 2.0 in all units attempted, a letter that the student is on probation shall be sent to the student. This letter will explain the significance of being on probation and will inform the student of support services available to assist in removing probation. The letter will also contain information on a mandatory probation workshop which must be attended in order for the student to maintain priority enrollment (see AP 5055).

Students who are subject to dismissal shall be sent a letter notifying them of:

1. Procedures leading to academic dismissal.
2. Explanation of what dismissal means.
3. Procedures for readmission/reinstatement.
4. Procedures to appeal the dismissal.

Notice of their status will be entered on their permanent record and transcripts.

Academic Dismissal – Readmission

A student who has been dismissed shall not be eligible for reinstatement or readmission until one semester has elapsed after the dismissal (not including summer session). A Petition for Readmission is required prior to enrollment and is available from the Admissions and Records Office. Approval for readmission will specify conditions and requirements to be met as determined by the Dean of Student Services.

Any student readmitted after disqualification remains on probation until probation removal requirements have been fulfilled. Students dismissed for the second time are not eligible to petition for readmission until another semester of nonattendance has elapsed (not including summer session).

Progress Dismissal

A student who has been placed on progress probation shall be subject to dismissal if the percentage of units in which the student has been enrolled with entries of “W,” “I,” and “NP” are recorded in at least three consecutive semesters reaches or exceeds 50 percent.

Notification of Progress Probation/Dismissal

At the end of the third semester on which the student is on progress probation, a student will be so informed by letter of:

1. Progress probation procedures
2. Explanation of what dismissal means
3. Procedure for readmission
4. Procedure to appeal the dismissal

Notice of this status will be entered on his permanent record and transcripts.

Progress Probation – Readmission

A student who has been dismissed shall not be eligible for reinstatement or readmission until one semester has elapsed after the dismissal (not including summer session). A Petition for Readmission is required prior to enrollment and is available from the Admissions and Records Office. Approval for readmission will specify conditions and requirements to be met as determined by the Dean of Student Services

A student readmitted after disqualification remains on probation until probation removal requirements have been fulfilled. Students dismissed for the second time are not eligible to petition for readmission until another semester of nonattendance has elapsed (not including summer session).

Appeal of Dismissal

The student has the right to appeal a proposed dismissal action if the student feels that facts exist to warrant an exception to this action. The student may obtain a Petition of Appeal from the Admission and Records Office and file it with Dean of Student Services, within 30 days after the dismissal letter was mailed. If the student fails to file a Petition of Appeal with the 30 day time limit, the student waives all future rights to appeal the dismissal action. It is the student’s responsibility to indicate on the Petition a clear statement of the grounds on which continued enrollment should be granted and to provide evidence supporting the reasons. Petitions will be reviewed by the Dean of Student Services.

The student will be continued on probation until the Dean of Student Services decides on the student’s appeal.

The Dean of Student Services will notify the student within 10 days of receipt of the student’s appeal. The student may appeal the decision of the Dean of Student Services, in writing to the Superintendent/ President, within 10 working days of the date of notification of the decision. The decision of the Superintendent/President is final.

If the dismissal appeal is granted, the student will be continued on probation for an additional semester. At the end of the additional semester, the student’s academic record will again be evaluated to determine whether the student may be removed from probation, should be dismissed, or should be continued on probation.

Board of Governors Fee Waiver (BOGFW) and APPEAL

In an effort to help students succeed in the California community colleges, the Student Success Act of 2012 (California Senate Bill 1456) was signed into law by Governor Brown. Among other aspects, the Act included the creation of minimum academic and progress standards that must be met for continued eligibility for the Board of Governors Fee Waiver Program (BOGFW). These are different and separate standards from those for student federal aid, Cal Grant, and enrollment priority.

The Academic and Progress Standards for the BOGFW are:

Academic Standard

Cumulative GPA of 2.0 or higher

Progress Standards

Cumulative satisfactory completion of more than 50% of all coursework attempted

- These standards do not apply to foster youth (24 years and younger).
- Eligibility to receive support services is not affected.
- Exemption is extended to enrollment priority.
- The 100 total degree-applicable completed unit cap does not apply to the BOGFW.

In order for students to maintain BOGFW eligibility, they must meet both the Academic and Progress Standards listed above.

In the future, within 30 days of the end of a primary term (Fall or Spring), the College will send a communication to those students who failed to meet the standards for two consecutive primary terms and will include instructions for how to appeal the loss of the BOGFW. This appeal is separate from any appeal for federal student aid, and the approval of one appeal will not mean the automatic approval of the other.

Appeals

Students will be able to appeal the loss of the Board of Governors Fee Waiver based upon the following verifiable circumstances:

- Extenuating circumstances – cases of accidents, illnesses, or other circumstances beyond a student's control.
- A change in a student's economic situation.
- Evidence that a student was unable to obtain essential support services.
- Special consideration of factors for CalWORKs, EOPS, DSPS, and veteran students.
- Students with disabilities who applied for but did not receive accommodation in a timely manner.
- Significant academic improvement.
- Successful appeal for enrollment priority extends to the fee waiver.

To obtain additional information and the BOGFW Appeal form please see Admissions & Records or call 559-730-3727.

Remedial Coursework Limit

Limitations: No student shall receive more than 30 semester units of credit for remedial coursework. Students having exhausted the unit limitation shall be referred for further remedial work to appropriate adult noncredit education services.

Limitation Exemption: The following students are exempted from the limitation on remedial coursework:

1. Students enrolled in one or more courses of English as a Second Language (ESL);
2. Students identified by the District as having a learning disability as defined in Title 5 §56036.

Waiver of limitations: Students who demonstrate significant, measurable progress towards development of skills appropriate to enrollment in college-level courses may be granted a waiver of the limitations of this procedure. These waivers shall be provided pursuant to standards which are reviewed and approved by the Board of Trustees (Title 5 §55035). The standards shall include provisions which ensure that waivers are only given for specified periods of time or for specified numbers of units.

A student who does not attain full eligibility status for degree-applicable credit courses within the limitation and who is not provided with a waiver will be restricted to taking only the following:

1. Noncredit courses;
2. Nondegree-applicable courses which do not involve remediation; and
3. Those degree applicable credit courses which do not have basic skills prerequisites or advisories on recommended preparation (Administrative Procedure 4226).

Withdrawal from College

Withdrawals will be processed through Banner Web. Students wishing to withdraw after the final drop date may petition for “Extenuating Circumstances” and must bring documentation to the Admissions and Records Office.

Please refer to the section above regarding Dropping a Class for grading policies, fees and effect on the student’s record relative to withdrawals.

Distance Learning

The mission of Distance Education at COS is to extend educational opportunities to a diverse population of students who prefer or have need of alternative methods of course delivery. These approaches to instruction outside the traditional classroom setting provide greater opportunities for students to obtain the education they need to achieve their goals, while continuing with demanding personal and employment schedules .

Distance Education is defined as any part of a course’s planned instruction occurring when students and instructor are separated by distance and involving interaction through the assistance of communication technology. At COS, we offer two different types of distance education: Online/Hybrid and Interactive TV (Synchronous).

Online/Hybrid: A course where any portion of the instructional time is provided online in addition to, or instead of, face-to-face interaction between the instructor and student. Online or hybrid classes are taught via an online course management system. Your instructor will provide you with information about how to access the course management system used for your course. If you have any questions, contact Dr. Deborah Nolan, Distance Education Coordinator, at (559) 737-6132 or deborahn@cos.edu.

For specific instructions about your class, click on the CRN in the online schedule and contact your instructor.

We have three variations of online/hybrid classes at COS:

1. Online with no face-to-face meetings
2. Online with one orientation meeting
3. Hybrid — with a combination of face-to-face meetings and online facilitation

Interactive TV (Synchronous): Classes taught with two-way TV at specific times at the Visalia campus and the Hanford Center.

Distance education courses transfer to four-year colleges and universities exactly like traditional classes held on campus. The coursework is equally rigorous. It is important to remember that success in distance learning classes will mean hard work on your part, plus good time management skills.

For more information, check our web page at: <http://www.cos.edu> or contact the Distance Education Coordinator, Dr. Deborah Nolan, at (559) 737-6132, or deborahn@cos.edu.



Student Rights and Responsibilities

Academic Counseling

Counselors at College of the Sequoias provide complete educational and career guidance services. They meet with students on an individual basis for a range of purposes: interpreting the assessment scores, recommending further assessment/testing, determining specific courses for immediate and future registration and developing a Student Educational Plan, which reflects the current goal of the student and identifies needs for referrals and services.

Student Rights and Grievances (Administrative Procedure 5503)

College of the Sequoias has adopted a student grievance procedure under which students who feel that their rights have been abridged may appeal their cases to a committee composed of representatives from the administration, faculty, and student body. A full description of the procedures is available on the COS website or upon request from Student Services. Anyone desiring additional information or wishing to file a complaint in regard to the above statement should contact the Dean of Student Services or the Student Grievance Officer.

Student Rights Grievance Procedure Summary Information

The purpose of this procedure is to provide a prompt and equitable means of resolving student grievances against the District. These procedures shall be available to any student who reasonably believes a District decision or action has adversely affected her status, rights or privileges as a student.

This procedure does not apply to:

- Student disciplinary actions, which are covered under Board Policies 5500, 5510, and Administrative Procedures 5501, 5510, and 5520.
- Police citations (i.e., “tickets”), which are covered under Administrative Procedure 6750.
- Sex discrimination as prohibited by Title IX of the Higher Education Amendments of 1972, which is covered under Administrative Procedures 3410 and 3430.
- Sexual harassment, which is covered under separate Administrative Procedures 3410 and 3430, and collective bargaining agreements.
- Illegal discrimination, which is covered under Administrative Procedures 3410 and 3430, and collective bargaining agreements.
- The challenge process for prerequisites, corequisites, advisories, and limitations on enrollment.
- Employee discipline.
- Challenges to established district policies and administrative regulations.
- Financial claims against the District.

Furthermore, nothing in this Administrative Procedure can supersede education code or other local, state or federal rules and regulations.

Due Process Procedures

A. Informal Resolution

All attempts to solve the grievance by informal resolution shall be documented on the COS Statement of Grievance Form (Appendix A in the Administrative Procedure).

Step One:

Each student who has a grievance shall make a reasonable effort to resolve the matter on an informal basis prior to requesting a grievance hearing, and shall attempt to solve the problem with the district representative making the decision that the student is challenging and may be considered for a grievance.

If the student has a compelling reason for not directly seeking resolution from the district representative, the Grievance Officer and/or the student may seek the assistance of the Dean of Student Services in attempting to resolve a grievance informally. The Dean of Student Services may hold mediation session(s) with the student and the district representative to continue the informal resolution process. The Grievance Officer and/or the student may seek the assistance of the Dean of Student Services in attempting to resolve a grievance at any time during the informal resolution stage (optional). Documentation is required on the Grievance Form (Appendix A).

Step Two:

If the grievance is not resolved, then the student shall continue to seek resolution through the informal process with the assistance of the Division Chair and/or Director and the Area Dean. All attempts to solve the grievance by informal resolution shall be documented on the COS Statement of Grievance Form (Appendix A).

Step Three:

After exhausting all efforts in Steps One and Two, the student may contact the District’s Grievance Officer. The Grievance Officer shall verify completion of steps 1 and 2 and the required documentation on the Grievance Form (Appendix A).

Informal meetings and discussion between persons directly involved in a grievance are essential at the outset of a dispute and should be encouraged at all stages. An equitable solution should be sought before persons directly involved in the case have stated official or public positions that might tend to polarize the dispute and render a solution more difficult. Retaliation by any party stemming from initiating informal discussions or filing of a grievance is prohibited.

B. Formal Resolution

A student who is still unsatisfied after the informal resolution process has the right to request a Formal Grievance Hearing by submitting to the District's Grievance Officer the Statement of Grievance form (Appendix A), which includes a signed written statement specifying the time, place and nature of the grievance, identifying what occurred in the informal resolution process and requesting a hearing before the Grievance Hearing Committee.

The completed Statement of Grievance form must be submitted with the Grievance Officer no later than twenty (20) school days after the semester concludes that the incident on which the grievance is based occurred. Within five (5) school days following receipt of the Statement of Grievance form, the Grievance Officer shall advise the student of her rights and responsibilities under these procedures, and assist the student, if necessary, in the final preparation of the Statement of Grievance form.

Student Bill of Rights

Preamble: Students of College of the Sequoias, as members of the academic community, have the same rights and freedoms that all citizens have as students, and as students they are accountable to federal and state laws and statutes. In addition, students are also accountable to the College of the Sequoias Board policies and individual college campus rules and regulations.

Students' Rights: In the context of these concepts, students' rights consist of the following:

1. In preparing student publications, the editorial staff and faculty advisors shall be free from censorship and advance copy approval. These publications shall do the following:
 - a. Adhere to canons of responsible journalism, such as avoidance of libel, indecency, undocumented allegations, attacks on personal integrity, and the techniques of harassment and innuendo;
 - b. State on the editorial page that the opinions expressed are not necessarily those of the College or the student body;
 - c. Follow district policies, individual publications policies (*The Campus* and other publications of information) and the free flow of ideas as a public forum.
2. Students shall have the right to take stands on issues, the right to examine and discuss questions of interest to them, and the right to support causes by orderly means which are in harmony with the regular functioning of the institution.
3. Students shall have the right to hear speakers on any subject, and on-campus recognized student organizations shall have the right to present speakers on any subject. In addition, students shall have the right of free assembly on campus subject to regulations that concern the regular functioning of the institution, to ensure that there is orderly scheduling of facilities and adequate preparation for the event. The recognized organizations, together with

the Student Activities and Affairs Office, shall be responsible for following the policies for scheduling and use of facilities for campus activities.

4. Students shall have the right to form an organization around any particular interest; this right will include the freedom to organize and join student organizations subject to published associated student and district regulations.
5. Students shall have the right to be informed on all campus matters that can be shown to be directly relevant to them by having a voice in decision making that affects their academic future with the exception of staff appointment, termination, and tenure. In case of conflict in determining what campus matters are relevant to students, the determination will be made by the Committee on Student Conduct and Grievance.
6. Students shall have the right to have their academic records treated in a confidential and responsible manner with due regard to the personal nature of the information these records contain. Students' records will be released only on the written consent of the student, or by court order or subpoena, according to the law.
7. Students shall have the right of protection against prejudiced or capricious academic evaluation. At the same time, however, students are responsible for maintaining standards of academic performance established for each course in which they are enrolled.
8. Students shall have the right to receive the quality education as outlined in this catalog and in the California Education Code, Title 5 regulations, and the Code of Ethics of the teaching profession.
9. Students shall have the right to file a grievance under the procedures of the district student grievance policy which provides a prompt and equitable method of resolution.

Student Record Privacy Rights and Access to Students Official Records

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

- (1) The right to inspect and review the student's education records within 45 days of the day the College receives a request for access. Students should submit to the Dean, Student Services, or other appropriate official, written requests that identify the record(s) they wish to inspect. The College official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the College official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
- (2) The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask the College to amend a record that they believe is inaccurate or misleading. They should write the College official responsible for the record, clearly identify the part of the record they want

changed, and specify why it is inaccurate or misleading. If the college decides not to amend the record as requested by the student, the College will notify the student of the decision and advise the student of her right to appeal the decision.

- (3) The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the College in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the college has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, 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. Records may also be released without the student's written consent for the following reasons: (a) pursuant to a court order or lawfully issued subpoena; (b) a federal court order concerning an investigation or prosecution of terrorism; (c) to authorized representatives of state or federal agencies where that information is necessary to audit or evaluate state or federally supported programs; (d) other public or private schools where the student seeks to enroll; (e) to agencies or organizations in connection with a student's application for, or receipt of, financial aid; (f) to organizations conducting studies for accrediting organizations or educational agencies; (g) in connection with an emergency if the knowledge of that information is necessary to protect the health or safety of a student or other persons; and (h) to federal military for the purposes of recruitment.
- (4) The right to file a complaint with the U.S. Department of Education concerning alleged failures by College of the Sequoias 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, DC 20202-4805

Certain kinds of information may be made available without a release. Such information is known as "directory information" and consists of the following items: Student's name, address, telephone number, date and place of birth, major, photographs, weight and height of athletes, most recent previous school attended, activities, dates of attendance, degrees and awards received and institutions attended. Any student wishing to deny the release of her directory information may do so by indicating under the Family Education and Privacy Act Section on the COS application.

Prohibition of Harassment Policy (BOARD POLICY 3430)

Purpose

College of the Sequoias is committed to providing an academic and work environment free of unlawful discrimination and harassment. This procedure defines unlawful discrimination and harassment, including sexual harassment, and sets forth a procedure for the investigation and resolution of complaints of discrimination and harassment by or against any staff or faculty member or student within the College.

Definition of Unlawful Discrimination and Harassment

Unlawful discrimination and harassment is defined as discrimination or harassment on the basis of ethnic group identification, national origin, religion, age, sex (i.e. gender) race, color, ancestry, sexual orientation, physical or mental disability, or the perception that a person has one or more of the foregoing characteristics.

Definition of Sexual Harassment

Sexual harassment is defined as unwelcome acts of a sexual nature including sexual advances, requests for sexual favors and/or other verbal or physical conduct including written communications of an intimidating, hostile or offensive nature, or action taken in retaliation for the reporting of such behavior when:

1. Submission to such conduct, either explicitly or implicitly, is made a term or condition of an individual's employment, academic status or progress; or
2. Submission to or rejection of such conduct by an individual is used as the basis for employment, promotion, transfer, selection for training, performance or academic evaluation decisions; or
3. Such conduct has the purpose or effect of creating an intimidating, hostile or offensive working or educational environment or substantially interferes with an employee's work performance or a student's academic performance; or
4. Submission to, or rejection of, the conduct by the individual is used as the basis for any decision affecting the individual regarding benefits and services, honors, programs, or activities available through the College.

Kinds of Sexual Harassment

The definition of sexual harassment encompasses two kinds of sexual harassment.

1. "Quid pro quo" sexual harassment occurs when a person in a position of authority makes education or employment benefits conditional upon an individual's willingness to engage in or tolerate unwanted sexual conduct.

2. “Hostile environment” sexual harassment occurs when unwelcome conduct based on sex is sufficiently severe or pervasive so as to alter the conditions of an individual’s learning or work environment, unreasonably interferes with an individual’s academic or work performance, or creates an intimidating, hostile, or abusive learning or work environment. The victim must subjectively perceive the environment as hostile, and the harassment must be such that a reasonable person of the same gender would perceive the environment as hostile.

Examples of Sexual Harassment

Sexual harassment can consist of virtually any form or combination of verbal, physical, visual or environmental conduct. It need not be explicit or even specifically directed at the victim. Sexually harassing conduct can occur between people of the same or different genders. The standard for determining whether conduct constitutes sexual harassment is whether a reasonable person of the same gender as the victim would perceive the conduct as harassment based on sex.

1. **Verbal Sexual Harassment**

Verbal sexual harassment may include, but is not limited to, the following:

- a. Inappropriate or offensive remarks, slurs, jokes or innuendoes based on a person’s protected status;
- b. Inappropriate comments regarding an individual’s body, physical appearance, attire, sexual prowess, marital status or sexual orientation;
- c. Unwelcome flirting or propositions;
- d. Demands for sexual favors;
- e. Verbal abuse, threats or intimidation of a sexual nature;
- f. Sexist, patronizing or ridiculing statements that convey derogatory attitudes about a particular gender or sexual orientation.

2. **Physical Sexual Harassment**

Physical sexual harassment may include, but is not limited to, the following:

- a. Inappropriate or offensive touching;
- b. Sexual assault, or coerced sexual intercourse or other sexual acts;
- c. Physical interference with free movement or blocking another person;
- d. Kissing, patting, fondling, lingering or intimate touches, grabbing, pinching, leering suggestively, unnecessarily brushing against another person;
- e. Sexual gestures;
- f. Acting in a provocative manner.

3. **Visual or Written Sexual Harassment**

Visual or written sexual harassment may include, but is not limited to, the following:

- a. The display or circulation of offensive, sexually oriented or other discriminatory visual or written materials;
- b. Posters, cartoons, drawings, graffiti, or other reading materials of a sexual nature;
- c. Computer graphics or electronic media transmissions of a sexual nature.

4. **Environmental Sexual Harassment**

An academic or work environment that is permeated with sexually oriented talk, innuendo, insults or abuse not relevant to the subject matter of the class or activities on the job. A hostile environment can arise from an unwarranted focus on sexual topics or sexually suggestive statements in the classroom or work place. An environment may be hostile if unwelcome sexual behavior or other harassing behavior based on a protected status is directed specifically at an individual or if the individual merely witnesses unlawful harassment in her immediate surroundings.

The determination of whether an environment is hostile is based on the totality of the circumstances, including such factors as the frequency of the conduct, the severity of the conduct, whether the conduct is humiliating or physically threatening, and whether the conduct unreasonably interferes with an individual’s learning or work.

5. **Relationships**

Romantic or sexual relationships between supervisors and employees, or between administrators, faculty or staff members and students are discouraged. There is an inherent imbalance of power and potential exploitation in such relationships. A conflict of interest may arise if the administrator, faculty or staff member must evaluate the student’s or employee’s work or make decisions affecting the employee or student. The relationship may create an appearance of impropriety and lead to charges of favoritism by other students or employees. A consensual relationship may change, with the result that sexual conduct that was once welcome becomes unwelcome and harassing. By definition, sexual harassment is not within the course and scope of an individual’s employment with the College.

6. **Academic Freedom with Respect to Sexually Explicit Materials**

A faculty member may use sexually explicit materials or literature in the classroom as a teaching technique to achieve educational objectives or to stimulate dialogue. The faculty member shall state in the course syllabus that such material will be used and the syllabus shall contain a notice to students that they may be excused during the presentation of such materials without consequence to their grade. The faculty member shall also be required to give a copy of the syllabus to the appropriate area dean in addition to the two copies given to the division chair.

To the extent the sexual harassment policy and administrative procedures are in conflict with the College’s policy on academic freedom, the sexual harassment policy and procedures shall prevail. Any dispute arising from such conflict shall be resolved by a committee approved by the Superintendent/President. At least 50 percent of this committee shall be comprised of faculty appointed by the Senate.

Complaint Procedure for Investigation and Resolution of Claims of Harassment

1. Informal Complaint Procedure

- a. The College Complaint Officer as below shall undertake, where possible, to informally resolve charges of unlawful discrimination or harassment;
- b. The College Complaint Officer shall first advise complainant of her rights and obligations under both the formal and informal complaint process. The College Complaint Officer further advises complainant of her right to file a formal complaint and explain the procedures for doing so.
- c. The College Complaint Officer shall also notify complainant that she need not participate in an informal resolution of the complaint and may file a complaint with the Office of Civil Rights of the U.S. Department of Education, the Equal Employment Opportunity Commission or the Department of Fair Employment and Housing.
- d. If the complainant declares her preference for the informal process, the College Complaint Officer shall have complainant read, date, and sign a document containing the basic of complainant's allegations and describing the formal/informal procedure and indicating that complainant opted for the informal process.
- e. The College Complaint Officer shall assure the complainant that she will not be required to confront or work out problems with the person accused of unlawful discrimination or harassment.
- f. In attempting to resolve the complaint through informal means, the College Complaint Officer shall not conduct any investigation unless the College Complaint Officer determines that an investigation is necessary due to the seriousness of the charges.
- g. Effort at informal resolution may continue after the filing of a formal written complaint.

2. Filing a Complaint

- a. **Complaint Form**
A complaint may be filed directly with the Chancellor's Office using the Chancellor's Office complaint form. Where a complaint is initially filed with the Chancellor's Office, Title 5 §59329 requires the Chancellor to immediately forward a copy of the complaint to the College for investigation and response.
- b. **College Complaint Office**
The College will designate an administrator of each gender to act as the College Complaint Officer. Each College Complaint Officer shall be given training, which is current in the proper methods of receiving, investigating, and processing complaints of unlawful discrimination and harassment. The Complaint Officer is charged with receiving complaints of sexual or other forms of prohibited discrimination or harassment, and coordinating the investigation. The accused shall have the right to select which College Complaint Officer oversees the investigation; however, if the complainant prefers the other College Complaint Officer,

the two Officers will coordinate with one another on the investigation.

The Complaint Officer may assign the actual investigation to other staff or to an outside person or organization under contract with the College after written notice has been given to the accused. An outside investigating organization shall be utilized whenever the Complaint Officer is named in the complaint or implicated by the allegations of the complaint.

c. **Written Complaint**

A student, staff or faculty member who believes she has a non-employment based complaint of unlawful discrimination or harassment must make a written or oral complaint to the College Complaint Officer within one year of the date of the alleged discrimination or harassment, or within one year from the date on which the complainant knew or should have known of the facts underlying the complaint.

A student, staff or faculty member who believes she has an employment-based complaint of unlawful discrimination or harassment must make a written or oral complaint to the College Complaint Officer within 180 days of the date of the alleged discrimination or harassment, or within 90 days following the expiration of the 180-day period if the complainant first obtained knowledge of the alleged violation after the expiration of the 180 days.

If the complainant fails or refuses to file a written complaint, the College Complaint Officer shall ask the complainant for permission to tape record her statement and if permission is not granted, the College Complaint Officer shall make a written record of the complainant's statement and shall give the complainant an opportunity to sign the statement. Any written record of the complainant's statement shall be in the form of a report and shall be free of subjective interpretation. All complainants must be made aware that failure to reduce a complaint to writing may be a factor when determining her credibility or the severity of her complaint in an administrative or judicial hearing. The College shall have no obligation to notify the Chancellor's Office of complaints that have not been placed in writing and signed by the complainant.

Any College employee who receives a harassment complaint shall notify the College Complaint Officer immediately.

3. **Notice to Accused**

The College Complaint Officer will give prompt notice to the person accused of harassment regarding the identity of the complainant, the date, time and place of the alleged incident of harassment, and the nature of the alleged misconduct.

4. Investigation Process

a. Witness Interviews

The College Complaint Officer shall authorize the investigation of the complaint, and supervise and/or conduct a thorough, prompt and impartial investigation of the complaint.

Prior to commencing any investigation and before interviewing the accused, the Complaint Officer shall notify an accused employee by telephone that a harassment complaint has been lodged against him and that he is entitled to union representation at any and all meetings with the Complaint Officer or designee, and without divulging names and/or the specifics of the matters in issue, the Complaint Officer shall also immediately notify the President or designee of the employee's union by telephone to alert the union that the employee may need assistance with regard to a harassment complaint. Within one (1) working day of notice to the accused employee and his respective union, or as soon thereafter as possible, the Complaint Officer shall recontact the accused employee to set a date and time to meet with the accused employee. The College Complaint Officer shall meet with the accused before interviewing any witnesses. At this meeting, the accused shall have the right of Union representation as provided in this section.

The investigation will include interviews with the complainant, persons who may have relevant knowledge concerning the complaint and the accused harasser. The accused and the complainant may recommend witnesses to be interviewed. The process may include interviews with victims of similar conduct.

b. Analysis of Information Gathered

The Complaint Officer will review the factual information gathered through the investigation to determine whether the alleged conduct constitutes harassment giving consideration to all factual information and the totality of the circumstances, including the nature of the conduct and the context in which the alleged incidents occurred.

c. Written Report

The Complaint Officer will prepare a written report that sets forth the results of the investigation. The written report shall include a description of the circumstances giving rise to the complaint, a summary of the testimony of each witness, an analysis of any relevant data or other evidence collected during the investigation, a specific finding as to whether harassment did or did not occur with response to each allegation in the complaint, and any other appropriate information.

d. Notice to Complainant and Accused

Within ninety (90) days from the date the College received the written complaint or reduced the complainant's verbal allegations to writing, the Complaint Officer will provide the complainant and the accused with a summary statement of the findings. The summary statement will also include the determination of the Complaint Officer as to whether harassment did

or did not occur with respect to the allegations in the complaint, the proposed resolution to the complaint, a statement regarding action taken, if any, and notice of the complainant's right to appeal to the College's Board of Trustees and the State Chancellor's Office.

5. Appeal Process

a. Board of Trustees

If the complainant is not satisfied with the result of the Complaint Officer's determination, she may, within fifteen days, submit a written appeal to the Board of Trustees.

The Board of Trustees shall review the original complaint, the investigative report, the Complaint Officer's decision and the appeal documents. If the Board does not act on the appeal within forty-five (45) days, the Complaint Officer's decision shall be deemed final. Otherwise, the Board shall issue a written decision within forty-five (45) days after receiving the written appeal. A copy of the decision rendered by the Board shall be forwarded to the complainant and to the State Chancellor's Office. The decision shall also include notice to the complainant of the right to appeal.

b. Notice to the Chancellor's Office

Within 150 days of receiving a written complaint, the College shall forward to the State Chancellor's Office the complaint, investigative report, notice to the complainant and accused of the final decision of the Complaint Officer, the decision of the Board of Trustees or the date upon which the decision of the Complaint Officer became final, and a copy of the notice to the complainant of her appeal rights. If, due to circumstances beyond its control, the College is unable to comply with the 150-day deadline for submission of materials, the College may file a written request with the Chancellor's Office, within ten (10) days of the deadline, for an extension of time to submit the documents. The College has no obligation to notify the Chancellor's Office of complaints that have not been placed in writing and signed by the complainant.

c. Appeal to State Chancellor's Office

The complainant may file a written appeal with the State Chancellor's Office within thirty (30) days of the date the Board of Trustees issues the final decision or in the event the Board elects to take no action on the appeal within thirty (30) days of the date the Complaint Officer's decision is deemed approved. The appeal to the Chancellor's Office shall be processed pursuant to the provisions of the California Code of Regulations, Title 5, Section 59350.

6. Remedial Action

a. Conclusions

If the College concludes that the charge of harassment is meritorious, it will provide timely notification to the accused of any corrective action proposed by the College.

- b. **Discipline**
If harassment occurred, the College shall take disciplinary and/or remedial action against the harasser. The action will be prompt and commensurate with the severity of the offense. If discipline is imposed, the nature of the disciplinary action will not be communicated to the complainant.

Disciplinary actions against faculty, staff and students will conform to all relevant statutes, regulations, personnel policies and procedures, including the provisions of any applicable collective bargaining agreement.

- c. **Right to Grieve**

An employee accused of harassment who is subject to disciplinary action as a result of the complaint shall have the right to proceed to advisory arbitration only after he has attempted a settlement at the mediation level. The parties agree to use the State Mediation and Conciliation Service to mediate the dispute. The mediation will be conducted as confidential settlement negotiations such that if the parties fail to reach agreement none of the information or proposals exchanged in the mediation may be used in any subsequent advisory arbitration hearing. If mediation fails to generate a settlement, the parties agree to request a list of arbitrators from the State Mediation and Conciliation Service and to select an arbitrator using a “strike-off” process.

- d. **Confidentiality and Prohibition of Retaliation**

The College shall take reasonable steps to ensure the confidentiality of the investigation and to protect the privacy of all parties. The College shall also take reasonable steps to protect the complainant from further harassment and to protect the complainant from retaliation as a result of filing the complaint. The College shall take reasonable actions to ensure that neither the accused person nor the accuser, nor their representatives, shall engage in any retaliation or intimidation toward each other or the witnesses. The College shall make every effort and take all necessary steps in order to protect personnel from the consequences of false accusations relating to sexual harassment.

7. **Dissemination of Policy and Procedures**

The College’s policy and procedures related to harassment will be provided to all students, faculty members, administration and staff, and will be posted in each department office on campus.

At the time of initial hire, employees will be supplied with a copy of the current harassment policy and harassment complaint procedure of the District; and they will sign a statement acknowledging that they have received the policy and procedures. The signed statement will be placed in the employee’s personnel file. In addition, the most current policy and procedures will be incorporated into the College’s General Catalog and orientation materials for new students.

8. **Training**

Training of faculty and staff should be conducted annually emphasizing the prohibition of harassment in the classroom and work environment and should include a review of the Board Policy 3430, Prohibition of Unlawful Discrimination and Harassment and the Discrimination and Harassment Complaint Procedures.

Reference: *Education Code sections 2.2.1, 66252, 66M2.5; Government Code sections 12900 – 12996; Labor Code sections 1101, 11021; California Code of Regulations, Title 5, §59320 42 U.S.C. sections 2000d, 2000e et.seq. (Title VI, VII) 42 U.S.C. section 2000h – 2 (Title IX) Title 5, §59320, et. seq.*



Student Standards of Conduct

The Superintendent/President shall establish Codes of Conduct and procedures for the imposition of discipline on students in accordance with the requirements for due process of the federal and state law and regulations. (Board Policy 5500)

The procedures shall clearly define the conduct that is subject to discipline and shall identify potential disciplinary actions including, but not limited to, the removal, suspension, or expulsion of a student.

The Board shall consider any recommendation from the Superintendent/President for expulsion. The Board shall consider an expulsion recommendation in closed session unless the student requests that the matter be considered in a public meeting. Final action by the Board on the expulsion shall be taken at a public meeting.

The procedures shall be made widely available to students through the college catalog and other means.

A. The following conduct shall constitute good cause for discipline, including but not limited to the removal, suspension, or expulsion of a student:

1. Causing, attempting to cause, or threatening to cause physical injury to another person.
2. Possession, sale or otherwise furnishing any firearm, knife, explosive, or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a District employee, which is concurred in by the Superintendent/President.
3. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.
4. Committing or attempting to commit robbery or extortion.
5. Causing or attempting to cause damage to District property or to private property on campus.
6. Stealing or attempting to steal District property or private property on campus, or knowingly receiving stolen District property or private property on campus.
7. Violation of the District's smoking policy.
8. Committing sexual harassment as defined by law or by District policies and procedures.
9. Engaging in harassing or discriminatory behavior based on race, sex (i.e., gender), religion, age, national origin, disability, or any other status protected by law.

10. Willful misconduct which results in injury or death to a student or to College personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the District or on campus.
11. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, College personnel.
12. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
13. Dishonesty; forgery; alteration or misuse of College documents, records or identification; or knowingly furnishing false information to the District.
14. Unauthorized entry upon or use of College facilities.
15. Lewd, indecent, or obscene conduct on District-owned or controlled property, or at District-sponsored or supervised functions.
16. Engaging in expression which is obscene, libelous or slanderous, or which so incites students as to create a clear and present danger of the commission of unlawful acts on College premises, or the violation of lawful District administrative procedures, or the substantial disruption of the orderly operation of the District.
17. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
18. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any District policy or administrative procedure.
19. Misrepresentation of oneself or of an organization as an agent of the District.
20. Obstruction or disruption, on or off College property, of the College's educational, administrative, or other College process.
21. Violation of any order of the Superintendent/President, notice of which has been given prior to such violation, and which order is not given by publication in the College newspaper, or by the student bulletin which is posted on bulletin boards designated for this purpose.
22. Soliciting or assisting another to do any act which would subject a student to expulsion, suspension, probation, or other discipline pursuant to this policy.
23. Violation of any District Board Policy.
24. Any other cause identified as good cause by the Education Code or other laws governing a community college.

B. Students who engage in the above are subject to the procedures outlined in Administrative Procedure 5520, which include:

1. Reprimand — Written warning that continued misconduct will result in more serious disciplinary action.
2. Temporary Exclusion — Removal from class or College activity for the duration of its scheduled period.

3. Short-term Suspension — Exclusion from classes, activities, and/or student privileges for a specified number of days, up to a maximum of ten days.
 4. Long-term Suspension — Exclusion from classes, activities, and/or student privileges for the remainder of the school term or for one or more terms.
 5. Expulsion — Termination of student status at this College.
- C. Certain members of the campus community are authorized to impose the above penalties as follows:
1. Any instructor may temporarily exclude the offending student from the class for the remainder of the class session and the next class meeting. Furthermore, an instructor may lower a grade, including giving an “F” or no credit on an assignment, essay, project, test, or quiz that involves cheating or plagiarism.
 2. Any administrator may temporarily exclude the student from any District-sponsored activity for the remainder of the activity time.
 3. The Dean of Student Services (Admissions and Records) may reprimand or temporarily exclude the student, or may recommend suspension or expulsion.
 4. As per California Penal Code, the District Police may restrict students from campus or facilities.
 5. The Superintendent/President of the District may impose suspension or recommend expulsion.
 6. The Board of Trustees may impose expulsion.
- See Administrative Procedures 5501, 5520 and 5530.

Student Discipline Procedures

The purpose of this procedure is to provide a prompt and equitable means to address violations of the Standards of Student Conduct, which guarantees to the student or students involved the due process rights guaranteed them by state and federal constitutional protections. This procedure will be used in a fair and equitable manner, and not for purposes of retaliation. It is not intended to substitute for criminal or civil proceedings that may be initiated by other agencies. A full description of the procedure is available on the COS website or upon request from Student Services.

These Administrative Procedures are specifically not intended to infringe in any way on the rights of students to engage in free expression as protected by the state and federal constitutions, and by Education Code Section 76120, and will not be used to punish expression that is protected (Administrative Procedure 5520).

Attendance

Regular class attendance not only is essential to the maintenance of satisfactory grades, but also is the means by which the College obtains financial support. So absences hurt the student and mean a loss of revenue to the College.

STUDENTS MAY BE WITHDRAWN FROM ALL CLASSES IN WHICH THEY WERE ABSENT ON THE FIRST MEETING OF THE SEMESTER.

If unusual circumstances prevent the student from attending, the student should notify the Dean of Student Services, Admissions and Records. However, the decision to retain a student in the class is the decision of the faculty member. However, it is the student’s responsibility to drop a class in which she no longer wishes to be enrolled.

NON-ATTENDANCE DOES NOT RELEASE THE STUDENT FROM THIS RESPONSIBILITY.

NO PERSON MAY ATTEND OR PARTICIPATE IN CLASS WITHOUT BEING PROPERLY ENROLLED DUE TO INSURANCE STIPULATIONS. STUDENTS PROPERLY ENROLLED SHOULD NOT BE ACCOMPANIED IN THE CLASSROOM BY CHILDREN, NOR SHOULD CHILDREN BE LEFT UNATTENDED ON THE CAMPUS WHILE PARENTS ATTEND CLASS.

Each instructor has her own attendance policy which she will announce early in the semester.

Students should be aware that some courses and activities include trips and that they are responsible, first, for informing their instructors when they will be absent because of these trips and, second, for completing the work missed. If the instructor is late for class, students are obligated to wait for 10 minutes from the time the class is officially to begin before leaving.

If a student has PRIOR knowledge of a scheduled absence, she should obtain permission from the instructor prior to the absence. If advance notice is not possible, students should follow the instructor’s instructions for reporting an absence.

Dropping a Class

It is the student’s responsibility to drop a class in which she no longer wishes to be enrolled.

Non-attendance does not release the student from this responsibility.

Classes may be dropped online through your Banner Web account.

Eating

Eating is allowed in the Student Union (Carl’s Junior, TACOS), the food courts and areas outside of buildings, BUT IS NOT permitted in classrooms or conference rooms.

Liquor and Drugs

The unlawful manufacture, distribution, dispensing, possession or use of alcohol or any controlled substance is prohibited on District property, during District sponsored field trips, activi-

ties or workshops, and in any facility or vehicle operated by the District.

Violation of this prohibition will result in appropriate action up to and including termination of employment, expulsion, and referral for prosecution, or as permitted by law, may require satisfactory participation in an alcohol or drug abuse assistance or rehabilitation program.

Smoking on Campus

Smoking is prohibited on all district property with the exception of designated parking lots. Please check the campus maps for which parking lots are allowed. Violation of this policy may result in a \$35.00 fine being assessed.

In an effort to provide a healthy, productive work and learning environment, the Superintendent/President will assure that students and employees alike have access to information regarding programs that reduce tobacco product use initiation, reduce consumption, and/or support cessation efforts (Reference: Government Code 7596-7598; 19994.30-19994.33; Education Code 76030-76037).

Pets

Pets are not permitted on campus without approval.

Messages

College staff cannot relay any personal communication for such things as medical appointments, car breakdowns, lost keys, employer contacts, transportation problems, jury duty, etc. In the case of an emergency, contact Campus Police: (559) 730-3999.

Posting of Materials

Clearance must be obtained from the Student Activities and Affairs Office for posting or distribution of any materials on campus. If there is any question of appropriateness, materials may be referred to the Dean of Counseling and Matriculation for clearance. Materials may be posted only on bulletin boards that say "Approved for Posting" across the top. General advertisements (for sale, roommates or transportation needed, etc.) may be placed on cards available in the Student Activities and Affairs Office.

Service Animals

The District will allow an individual with a disability to use a service animal in District facilities and on District campuses in compliance with state and federal law.

The District will allow an individual with a disability to use a miniature horse as a service animal in District facilities and on District campuses if the miniature horse has been individually trained to do work or perform tasks for the benefit of the individual with a disability and the District has determined, based

on the assessment factors provided in this procedure, that a reasonable accommodation can be made.

The District will allow an individual with a disability to be accompanied by his service animal in all areas of the District's facilities where members of the public, invitees, clients, customers, patrons, or participants in services, programs or activities, as relevant, are allowed to go.

These procedures shall also be applicable to an individual who is training a service animal.

Service Animal Defined

A service animal for purposes of this procedure means any dog (or miniature horse, as provided herein) that is individually trained to do work or perform tasks for the benefit of an individual with a disability, including a physical, sensory, psychiatric, intellectual, or other mental disability. Miniature horses will be approximately 24-34 inches in height and 70-100 pounds in weight.

Other species of animals, whether wild or domestic, trained or untrained, are not service animals for the purposes of this definition.

The work or tasks performed by a service animal must be directly related to the handler's disability. The crime deterrent effects of an animal's presence and the provision of emotional support, well-being, comfort, or companionship do not constitute work or tasks for the purposes of this definition.

Exceptions

The District may ask an individual with a disability to remove a service animal from the premises if:

- The animal is out of control and the animal's handler does not take effective action to control it; or
- The animal is not housebroken.

If a service animal is excluded under one of these exceptions, the District will give the individual with a disability the opportunity to obtain goods, services, and accommodations or to participate in the service, program, or activity without having the service animal on the premises.

Assessment Factors for Miniature Horses

The District shall consider the following factors:

- The type, size, and weight of the miniature horse and whether the facility can accommodate these features;
- Whether the handler has sufficient control of the miniature horse;
- Whether the miniature horse is housebroken; and
- Whether the miniature horse's presence in a specific facility compromises legitimate safety requirements that are necessary for safe operation.

Control

The service animal must have a harness, leash, or other tether, unless either the handler is unable because of a disability to use a harness, leash, or other tether; or the use of a harness, leash, or other tether would interfere with the service animal's safe, effective performance of work or tasks, in which case the service animal must be otherwise under the handler's control (e.g., voice control, signals, or other effective means).

Care or Supervision

The District is not responsible for the care or supervision of the animal.

Inquiries by the District

The District may make two inquiries to determine whether an animal qualifies as a service animal:

- Whether the animal is required because of a disability; and
- What work or task the animal has been trained to perform.

The District will not make either of these inquiries when it is readily apparent that an animal is trained to do work or perform tasks for an individual with a disability (e.g., the dog is observed guiding an individual who is blind or has low vision, pulling a person's wheelchair, or providing assistance with stability or balance to an individual with an observable mobility disability).

An individual may choose to produce a county service dog license or identification tag as proof that the animal is a service animal. Licensure or certification is not required in order to meet the definition of service animal under this procedure. There are no licensing or certification requirements for miniature horses.

No Surcharge

The District will not ask or require an individual with a disability to pay a surcharge, even if people accompanied by pets are required to pay fees, or to comply with other requirements generally not applicable to people without pets. If the District normally charges individuals for damage caused by pets, an individual with a disability may be charged for damaged caused by his service animal. (Administrative Procedure 3440)

Speech: Time and Place

The students and employees of the District and members of the community shall be permitted to exercise their rights of free expression subject to the time, place and manner following the established procedures outlined below and other applicable Board Policies and Administrative Procedures.

The colleges and campuses of the District are non-public forums, except for the areas designated by the Superintendent/President, or designee, and those areas designated as public

forums. These designated areas are generally available to students, employees, and the community and are reserved for expressive activities which do not violate District policy and which are lawful. These areas are chosen to provide visibility and allow communication to a large number of students, administrators, faculty, and others walking or traveling on campus but also not to disrupt educational and other activities of the District on behalf of students.

Areas Designated For Use As Public Forums:

Visalia: Grass in front of Moro Building (east side)

Tulare: Lower walkway between Building A and B on the ground floor

Hanford: Patio behind Student Lounge

Other:

The Superintendent/President, or designee, shall have the discretion to modify the designated area of a campus in accordance with the following limitations: The newly designated area must be reasonably comparable in size and pedestrian traffic to the former area as possible given the layout of the campus in question and use of the surrounding buildings. This discretion is not to be exercised on a case-by-case basis but only to the extent necessary when all or part of a designated area becomes inaccessible or not safe (such as when construction is undertaken in the designated area or in the event of a natural disaster) or when the use of the area or part of the area for speech activities in general interferes with the educational and administrative activities of the District (such as when noise caused by public speakers significantly and repeatedly interferes with classes and other activities taking place in surrounding buildings).

The areas generally available to students, employees and the community are limited public forums. The areas are available during days when District classes are held and during the hours of 8:00 a.m. to 5:00 p.m.

The District reserves the right to revoke that designation and apply a non-public forum designation. The District reserves the right to designate areas as non-public forums as necessary to prevent the substantial disruption of the orderly operation of the College.

Areas of the District that are non-public forums specifically include campus offices, classrooms, warehouses, maintenance yards, or locker rooms.

The use of areas generally available to students, employees and the community is subject to the following:

1. Persons using areas generally available to students, employees and the community and/or distributing material in the areas generally available to students and community shall not impede the progress of passersby, nor shall they force passersby to take material.

2. No persons using areas generally available to students, employees and the community shall touch, strike or impede the progress of passersby, except for incidental or accidental contact, or contact initiated by a passerby.
3. Persons using areas generally available to students, employees and the community shall not use any means of amplification that creates a noise or diversion that disturbs or tends to disturb the orderly conduct of the campus or classes taking place at the time.
4. No persons using the areas generally available to students, employees and the community shall solicit donations of money, through direct requests for funds, sales of tickets or otherwise, except where he is using the areas generally available to students, employees and the community on behalf of and collecting funds for an organization that is registered with the Secretary of State as a nonprofit corporation or is an approved Associated Students organization or club.
5. Outside vendors may be approved by the Vice President, Administrative Services, or designee, to come to a campus to promote their business and provide information to students. A \$50.00 per day charge (in advance) will be collected and deposited to an account as designated by each campus. To reserve a date on the Visalia campus and to be included on the District's master calendar, a vendor must secure, complete, and submit an Activity Date Request two weeks prior to the promotion date to the Student Activities and Affairs Office. For the Hanford Campus, Activity Date Requests will be submitted to the Hub. In Tulare the requests will be submitted to the Tulare campus administrator. Each campus will handle scheduling their individual calendars. No commercial business will be allowed which is in direct competition with the District or with vendors with whom the District has exclusive agreements.
6. Members of the public are welcome to speak and/or distribute written materials within the designated area(s) of each campus subject to the time, place, and manner outlined in this procedure and any other applicable Board Policy or Procedure.

Prior to speaking and/or distributing written materials, members of the public who are not students or employees of the District shall provide notice of their intent to speak and/or distribute written materials to the Office of the Superintendent/President, or designee(s), for Sequoias Community College District. This notice shall not be provided more than three days prior to the use of the designated area(s). This notice shall include the person's name and contact information and the dates and times he will be speaking and/or distributing written materials on campus. This notice does not involve any application or approval process, and therefore, the ability to use the designated area(s) cannot be denied. This notice is only intended to provide the District with knowledge of the community member's presence on campus so the District can notify the appropriate members of its staff whose services might be needed or impacted by the use of the designated area(s).

7. No amplified sound devices shall be used for any event other than approved Student Senate functions at times

deemed acceptable so as not to interfere with scheduled classes.

All persons using the designated area(s) of the District shall be allowed to distribute petitions, circulars, leaflets, newspapers, and other printed matter. Such distribution shall take place only within the designated area(s). Material distributed in the designated area(s) that is discarded or dropped in or around the designated area(s) other than in an appropriate receptacle must be retrieved and removed or properly discarded by those persons distributing the material prior to their departure from the designated area(s) that day.

Distribution and/or posting of materials on campus is subject to the following:

1. Students shall be provided with bulletin boards for use in posting student materials at campus locations convenient for student use. All materials displayed on a bulletin board shall be approved by the Superintendent/President, or designee, and shall clearly indicate the author or agency responsible for its production and reflect the date of posting. Materials displayed shall be removed after two weeks or after the date of the event. If a student's request for posting of materials is denied, he may meet with the Dean, Student Services, or designee, to appeal the decision.
2. Unacceptable items include:
 - So-called "HATE" literature which scurrilously attacks gender and sexual orientation (actual or perceived), ethnic, religious and racial groups; other irresponsible publications aimed at creating hostility and violence; hardcore pornography; and, similar materials are not suitable for distribution on campus.
 - Materials denigrating to specific individuals in or out of school.
 - Materials designated for commercial purpose to advertise a product or service for sale without providing a discount to students.
 - Materials which are designed to solicit funds, unless approved by the proper authorities.



Student Services

Associated Student Body

The Associated Students of College of the Sequoias is the official student body organization. Upon payment of the student activity fee at registration, students become official members of the Associated Student Body and are represented by the Student Senate. Upon payment of the activity fee, students are issued an activity sticker which entitles them to participate in activities of the organization as long as they remain in good standing. Most activities which concern the student body as a whole are sponsored by the Associated Students.

The business of the Associated Students is carried out by the Student Senate. Elected members comprising the Student Senate are: Associated Student Body President, Vice-President, Commissioners of Activities, Clubs, Records, Finance, Publicity, Student Body Ambassador, and Student Board of Trustees member.

All clubs on campus are officially chartered by the Student Senate.

Clubs and Organizations

Students are encouraged to become active in one or more of the various clubs at COS to enrich and round out their college experience. A list of clubs, their advisors and meeting times is listed on various bulletin boards on campus. Further information is available in the Student Activities and Affairs Office located in the Giant Forest building.

Any group wanting to be organized as a club at COS must be chartered through the Associated Student Body. Forms are obtained in the Student Activities and Affairs Office located in the Giant Forest building. An "Activity Hour" is scheduled on Tuesdays and Thursdays at 12 noon for activities. It is set up so groups can plan meetings, social activities, and assemblies when most students are free to attend. An effort is made to schedule a minimum number of classes during these hours.

Student Activities

COS recognizes its responsibility for students' emotional and social growth. The College, therefore, offers a variety of co-curricular programs, including student government, athletics, music groups, clubs, assembly programs, community service projects and social activities. Further information on any activities can be obtained through the Student Activities and Affairs Office in the Student Center, Giant Forest building, Room 123.

COS Bookstore

The COS Bookstore welcomes students to College of the Sequoias. Conveniently located in the center of the Visalia campus, in the Giant Forest Building, the bookstore carries textbooks and supplies as well as emblematic clothing, gifts and college memorabilia.

The COS Bookstore encourages students to visit the bookstore before the semester begins. Textbooks are arranged by department, course, instructor, and section number. Textbooks are priced on the shelf tags below the books. The formats/options available for each book will also be listed on the shelf tag. Different options for purchasing textbooks are available:

- Online at: cos.bncollege.com (have them delivered to your residence for a fee or pick up your order at the store).
- Sign up for the Textbook Payment Plan (see an associate for details).
- Rental: a major credit card is required in order to secure textbook rentals. All rentals must be returned by the due date. If textbooks are not returned by the due date, the full price of the book plus processing fees will be charged.

Personal checks, VISA, MasterCard, Discover, American Express are accepted for payment provided a driver's license and student ID number are presented. All returned checks are turned over to CHECK AGAIN for collection and assessed a \$30.00 service fee.

Refunds and Exchanges

Dates will be posted each semester.

Books purchased for short-term classes must be returned on or before the first day of class.

A COS Bookstore receipt must be presented for any refund or exchange; new books must be in perfect condition to return; a refund will not be issued if books are written in, unwrapped, soiled or stickers are removed.

Buy Back Policy

Students can sell their books back at the COS Bookstore. Wholesale prices may be offered during the semester. At the end of the semester, books may be worth up to 50% of the selling price IF they are being used again on campus AND the bookstore needs additional quantities. If the bookstore does not need the books, a wholesale price MAY be offered

Dates and times for the end-of-the-semester buyback will be posted at the bookstore and campus. The bookstore cannot guarantee the buy back of any book at any time.

The staff at the COS Bookstore is here to serve our campus. For questions or requests, please contact the Bookstore by phone at (559) 730-3751 or by e-mail:

Dorianna Mendieta, Bookstore Manager
doriannam@cos.edu

Karyl Johnson, Operations Coordinator
karylj@cos.edu

Charles Slaght: charless@cos.edu

California Mini-Corps

The California Mini-Corps Program assists college students who have an interest in teaching and would like to dedicate their professional careers to helping migrant students who are enrolled in California's K-12 education system. Location: Visalia Campus, General Grant 415. For more information, please call (559) 740-3958.

CalWORKs

The CalWORKs program assists students who are currently receiving Temporary Assistance for Needy Families (TANF) for themselves and their children with coordinated services such as academic counseling, Cal WORKS work study, child care and advocacy. Location: Visalia Campus, Sequoia 112. For more information, please call (559) 730-3864.

Campus Parking

Parking facilities on campus are limited. Students are encouraged to participate in car pools or ride public transportation rather than drive their own vehicles because of the added safety, financial savings, and parking congestion. Purchase of a parking permit does not guarantee a space will be available. The District is not responsible for losses due to theft or damage. All parking lot users are urged to lock their vehicles and not leave valuables within view.

Those who do bring vehicles are required to purchase a permit and to obey ALL parking regulations. Citations may be issued by the District Police to anyone who is in violation of the college parking policy or California Vehicle Code. A brochure containing parking policies is available at the District Police Office.

Students wishing to park on campus must pay a fee for a semester parking permit and are charged a \$10.00 fee for a summer parking permit. Fall or spring semester permits are valid for summer semester. Permits may be purchased online at <https://sequoias.thepermitstore.com>. Students not wishing to purchase a semester parking permit may purchase one-day parking passes for \$2.00 from the dispensers located at the following locations:

Visalia Campus:

Parking Lots 1, 3, 4, 6, 7 and 9

Hanford Campus:

Breezeway between the Education and Public Safety Buildings and Lot 2

Tulare Campus:

Lots 1, 2 and 3

Permits must be picked up as soon as purchased as a limited number will be issued.

Parking permits must be permanently affixed to the vehicle in the prescribed manner.

Parking refunds will be available to students withdrawing from school prior to the end of the second week of instruction. Students withdrawing from school after the second week will not receive refunds.

Refund Procedure:

1. Apply for parking refunds at the Cashier's Office in the Sequoia Building.
2. A \$3.00 service fee will be deducted from all full-time and part-time permit refunds.
3. Parking permits must be returned to the Cashier's Office before refunds will be processed.
4. A refund check will be mailed in 6-8 weeks.

Cooperative Agencies Resources for Education (CARE)

The Cooperative Agencies Resources for Education (CARE) Program serves Extended Opportunity Programs and Services (EOPS) students who are single parents receiving Temporary Assistance for Needy Families (TANF). It is our mission to support students by offering general advisement, peer support, resource information, advocacy and other collaborative services in an effort to help them achieve their educational goals and transition into economically self-sufficient individuals. For more information, contact the CARE Office by calling (559) 730-3818 or by visiting the office located in the Sequoias Building, Room 108 on the Visalia Campus or online at www.cos.edu/eops.

Counseling Services

Counselors at College of the Sequoias provide complete educational and career guidance services. They meet with students on an individual or small group basis for a range of purposes: interpreting assessment results, recommending further assessment/testing, determining specific courses for immediate and future registration, developing a Student Education Plan, identifying students' concerns and making appropriate referrals for services, and supporting the progress and successful achievement of the student's goal through follow-up services. Personal and social concerns are also addressed as they relate to college success. Students are encouraged to take advantage of these services offered at no cost.

The purpose of counseling is to help students succeed in their studies through self-evaluation, decision making, careful planning, and commitment. Because accurate information is essential, our counselors are dedicated to ensuring that students receive current and correct information. This information is usually documented in a Student Education Plan which reflects the student's current goal. Students wishing to change their goal should see a counselor to revise their Student Education Plan.

Counselors are available during the day either by appointment, on a walk-in basis, and through online request. Evening counseling is available by appointment only. It is advised that

students make appointments well in advance of registration periods because of the high demand for counseling. Walk-in students should be aware that they may have to wait to see an available counselor.

College of the Sequoias students wishing to make an appointment on the Visalia campus may call or stop by the Counseling Office located in the Sequoia building. The telephone number is (559) 730-3715. To schedule a counseling appointment at the Hanford Center, students may call (559) 585-2500; for the Tulare Center, contact (559) 688-3000.

COS District Police Department

The COS District Police Department functions for the protection of school, students, staff and facilities. **Call 911 for emergencies only.** Student parking permits can be ordered online at www.sequoias.thepermitstore.com. Daily parking permits can be obtained from the parking permit machines located in the parking lots. Location: Visalia Campus, Blue Oak 903 by parking lot 1. For more information, please call (559) 730-3726.

Access and Ability Center

The Access and Ability Center (AAC) serves COS students with a variety of disabilities, including students with mobility, vision and other health impairments, students with hearing and speech difficulties, and students with learning disabilities that affect acquiring, storing and/or retrieving information. The AAC also serves students who have acquired brain injuries and developmentally-delayed learners with the potential for hindered achievement and college success. Location: Visalia Campus, Sequoia 10. For more information, please call the Visalia Campus at (559) 730-3805 or the Hanford Campus at (559) 583-2500.

Early Alert

Early Alert will allow students to learn of their mid-term grades, any areas of concerns and to read comments written by their instructors for the classes they are taking at COS. Early Alerts are disbursed in two ways:

1. An e-mail message will be sent to the student's COS Giant e-mail account.
2. Early Alerts will appear online on Banner Web.

Students are encouraged to ask their instructors to submit an Early Alert on their behalf and to seek assistance from the many student programs and services available at COS. For more directions on how to access Early Alerts, please visit the following website: www.cos.edu/earlyalert.

Extended Opportunity Programs and Services (EOPS)

EOPS recruits and successfully retains college students of educationally and socio-economically disadvantaged backgrounds from throughout Kings and Tulare counties. The CARE program

serves EOPS students who are single parents who are or were receiving Temporary Assistance for Needy Families (TANF) by supporting them to complete college-level courses or training programs. Location: Visalia Campus, Sequoia 108. For more information, please call (559) 730-3818. You may also visit us on the web at www.cos.edu/eops.

Financial Aid Programs

College of the Sequoias recognizes that many students need financial assistance to pursue their educational goals and strives to provide this assistance to all eligible students. The College offers a coordinated program of scholarships, grants, loans and employment opportunities to assist students in meeting their college expenses.

Financial aid awards are made on the basis of demonstrated financial need and academic eligibility. For the purpose of establishing financial need, students should submit the Free Application for Federal Student Aid (FAFSA). Complete the FAFSA at www.fafsa.gov. Application materials and detailed instruction booklets are available at California high school counseling offices and/or College of the Sequoias Financial Aid Office. For general financial aid information, visit www.studentaid.ed.gov. For COS financial aid policies and procedures, go to www.cos.edu/financialaid. Financial Aid services are available at the following locations:

Visalia Campus: Sequoias Building, Room 105
(559) 730-3747

Hanford Center: Hanford Hub
(559) 583-2511

Tulare College Center: Student Services Building A
(559) 688-3013

Satisfactory Academic Progress (SAP) Policy

The U.S. Department of Education requires, as a condition of receiving Title IV federal student aid, that students be making satisfactory academic progress toward an associate degree, vocational certificate of at least sixteen units, or transfer to a four-year college or university. This policy is also applied to state student aid.

At College of the Sequoias (COS), students are considered to be meeting the satisfactory academic progress standards if the following four requirements are met:

1. 2.0 Cumulative Grade Point Average: A student must maintain a 2.0 cumulative grade point average (GPA). This includes all GPA units at COS and those from other regionally accredited colleges and universities that have been evaluated by the COS Admissions and Records Office and applied to the student's academic record. GPA units are those with grades of A, B, C, D, or F.
2. 67% Cumulative Pace of Unit Completion: A student must complete at least 67% of the total number of units they

attempt (passed hours divided by attempted hours). All courses with grades of A, B, C, D, or F, as well as W, I, NC, NP, NG, and repeated courses will be counted towards the total attempted units. Units from regionally accredited colleges and universities that have been evaluated by the COS Admissions and Records Office and applied to the student's academic record will also be counted.

3. Degree Earned: The student has not earned an associate degree or higher from a regionally accredited college or university.
4. Maximum Attempted Unit Timeframe: A student has not exceeded the maximum attempted unit timeframe allowed for the completion of his/her educational program. The units required to complete a vocational certificate vary. Completion of an associate degree normally requires 60 units. Based on federal regulations, a student is allowed a maximum attempted unit timeframe not to exceed 150% of the length of an educational program. Example: 150% of a 60 unit program (60 x 1.5) equals 90 attempted units, at which time the student would be disqualified. All courses, including remedial, ESL, repeated courses, and courses taken while pursuing other majors, with grades of A, B, C, D, or F, as well as W, I, NC, NP, NG, will be counted as attempted units applied to the maximum attempted unit timeframe allowed. Courses from other regionally accredited colleges or universities that have been evaluated by the COS Admissions and Records Office and applied to the student's academic record will also be counted toward the maximum attempted unit timeframe.

Additional Requirements

- All financial aid students are required to meet with an academic counselor prior to registering for their courses to create a Student Educational Plan (SEP).
- Students must only register for courses that are required for their eligible educational program. Click here to view the Eligible Programs list or go to the Financial Aid website at www.cos.edu/financialaid.
- Repeated coursework: Federal regulations allow for students to receive federal student aid for one repeat of a previously passed course. A grade of D or better is considered passing. Ws do not count as repeats.
- Transcripts from all regionally accredited colleges or universities attended must be submitted to COS.
- During any term of attendance, if it is determined by COS that the student is not actively attending classes and/or does not have a reasonable probability of receiving passing grades, eligibility for financial aid may be forfeited.
- No more than two units of Physical Education, Dance, or Intercollegiate Athletics will be counted for students registered in nine or more units. No more than one unit will be counted for students registered in fewer than nine units.

Financial Aid Status

College of the Sequoias's Financial Aid Office will evaluate students' academic progress at the end of each term (fall, spring, and summer) following the official posting of grades in the COS

Admissions and Records Office. The financial aid academic progress status will then be assigned from those listed below and posted to Banner Web.

- Good Progress: Students will be awarded and disbursed financial aid, if otherwise eligible.
- Warning: Students who fail to meet the 67% cumulative pace of unit completion and/or 2.0 cumulative GPA will be placed on financial aid warning status and continue to receive financial aid in the following term, if otherwise eligible.
- Disqualified-Poor Progress: Students who fail to meet the 67% cumulative pace of unit completion and/or 2.0 cumulative GPA requirement for two consecutive terms will be disqualified and not receive financial aid.
- Degree Earned: Students will not receive additional financial aid unless they are granted a financial aid appeal because of additional time needed to complete their educational goal.
- Degree Earned and Poor Progress: Students will not receive additional financial aid because of having earned an associate degree or higher from a regionally accredited college or university and having failed to meet the 67% cumulative pace of unit completion and/or 2.0 cumulative GPA requirement.
- Exceeded Maximum Attempted Unit Timeframe: Students will not receive additional financial aid unless they are granted a financial aid appeal because of additional time needed to complete their educational goal.
- Exceeded Maximum Attempted Unit Timeframe and Poor Progress: Students will not receive additional financial aid because of exceeding the 150% maximum attempted unit time frame allowed for the completion of their educational program and failing to meet the 67% cumulative pace of unit completion and/or 2.0 cumulative GPA requirement.
- Probation-Approved: Student has submitted an appeal which has been approved, and will therefore receive financial aid if otherwise eligible. At the end of the term for which he is placed on probation, the student must be back in GOOD PROGRESS status or have met all conditions of his appeal. Students may not be placed on PROBATION status for the subsequent term if the appeal conditions were not met.
- Appeal Denied: Student has submitted an appeal that has been denied and therefore will not receive additional financial aid.

Financial Aid Appeals

In certain documented circumstances, students placed on any financial aid status that results in their loss of financial aid eligibility may file an appeal for reinstatement of financial aid. The appeal form can be found in the forms section of the COS financial aid website at www.cos.edu/financialaid. The following are the acceptable reasons for consideration of an appeal:

- Additional time needed to complete an educational goal beyond an associate degree or higher or has exceeded maximum attempted unit timeframe of 150% that is allowed for the completion of an educational program.

- Illness or accident of the student (documentation required)
- Death of an immediate family member (documentation required)
- U.S. military service orders (documentation required)

Academic Pace Plan Request – Student has a cumulative pace of unit completion from 60% to 66% and a cumulative grade point average (GPA) of 2.0 or greater. Student has completed a qualifying term where six (6) or more units were attempted and all units attempted were passed with a grade of “C” or better (no Ws). If any units were attempted after the qualifying term, they were also passed with a grade of “C” or better (no documentation required).

When submitting an appeal, a student must:

- Attach a counselor-approved Student Educational Plan (SEP).
- Be currently registered for required courses in the term for which they are submitting the appeal.
- Have all transcripts from regionally accredited colleges or universities submitted to COS.
- Attach complete documentation of circumstances as specified on the appeal form instructions OR
- Have met the conditions of an appeal, if one was submitted and approved in the previous term.
- Have met the submission deadline of October 31st for the fall term, March 31st for the spring term, and a deadline to be posted in the COS Financial Aid Office and on the COS financial aid website for the summer term.

An appeal will NOT be approved for a student with a change of program (major or educational goal) if they have exceeded the 150% maximum attempted unit timeframe allowed for the completion of an educational program, except in limited circumstances such as retraining due to medical reasons, and only after a Change of Program Contract has been signed by the student and approved by the COS Financial Aid Office.

Reinstatement of Financial Aid Eligibility

- **Self-Reinstatement** — A student may have financial aid self-reinstated by earning a cumulative 2.0 GPA and by earning a cumulative 67% pace of unit completion but must not have exceeded the maximum attempted unit timeframe of 150% allowed for the completion of his educational program.
- **Approval of SAP Appeal with Resulting Probation Status** A student may submit an SAP Appeal Form accompanied by supporting documentation (if required) and have his appeal approved. In this scenario, students are placed on Probation status for that term only, and must be in Good Progress status or have met conditions of their approved appeal by the end of that term.

Students submitting an SAP Appeal will be notified of the appeal decision by email to their COS issued email account (giant.cos.edu) approximately four to six weeks after prior term

grades are officially posted. The decision will also be posted on Banner Web.

ALL FINANCIAL AID APPEAL DECISIONS ARE FINAL

College of the Sequoias
915 South Mooney Boulevard
Sequoia Building, Room 105
Visalia, CA 93277

Tel: (559) 730-3747 Fax: (559) 737-4840

Email: financialaid@cos.edu

Website: www.cos.edu/financialaid

Food Services

College of the Sequoias offers students several food service areas.

Food snacks are available at the Tulare and Hanford campuses. In Tulare, food options are available in Building A as well as vending options in Building B. In Hanford, food options are available in the student lounge.

In Visalia, Carl’s Jr., COS Cafe and TaCOS are located in the Alta Peak Student Union. They are open Monday through Thursday 7:30am – 7:00pm and Fridays 7:30am – 1:00pm. Both breakfast and lunch are served at TaCOS and Carl’s Jr., with breakfast orders ending at 10 a.m. COS Cafe serves lunch only between the hours of 8:00am – 2:00pm.

Also in Visalia, a snack bar (food court) with an outside seating area is located at the north end of the Giant Forest building. The snack bar offers a variety of snacks (including candies, ice-cream, crackers, and cookies) a variety of drinks, light lunches and sandwiches. The snack bar is open 7:00am – 9:00pm Monday through Thursday, and 7:00am – 2:00pm on Fridays.

Housing Services

The Student Activities and Affairs office provides a Housing Bulletin Board to assist students in locating apartments, rooms or houses in the local area. The Housing Bulletin Board is in a glass case located in the Sequoia building breezeway. Anyone interested in obtaining a rental or posting a rental listing should stop by the Student Activities and Affairs office. **Note: COS only provides information for rentals and does not provide housing or participate in the rental process.** Location: Visalia Campus, Giant Forest Building, 123. For more information, please call (559) 730-3736.

Insurance Coverage for Students

All students are covered by an accident insurance policy that provides coverage for accidents occurring during school-sponsored, supervised curricular and co-curricular activities. The policy coordinates with students’ personal insurance so duplicate benefits are not paid. STUDENTS INVOLVED IN AN ACCIDENT that occurs on the college campus or at a college-related

function MUST FILL OUT AN ACCIDENT FORM AND CLAIM IN THE HEALTH CENTER.

Students may also buy voluntary health insurance through COS during registration. Coverage may be extended to include spouse and children. Although the plan is a voluntary one, the College recommends that every student be covered by this policy or an equivalent one. Extreme financial hardship can result when a major illness or accident occurs and there is no insurance protection. More information is available in the Health Center (Giant Forest building).

Learning Resource Center (LRC)

Visalia, Lodgepole Building

Monday – Thursday: 7:30am – 8:00pm

Friday: 7:30am – 4:00pm

Saturday: 10:00am - 2:00pm

The Learning Resource Center (LRC) in Visalia encompasses the Library, Tutorial Center, Math Lab, Writing Center and Student Computer Helpdesk. All students are invited to use these services. The first floor is comprised of a large computer lab with printers and staff to assist students and faculty, a reference librarian available at all open hours to assist with research and accessing resources, our periodical (newspaper and journal) collection, reference collection, check-out counter, large group study rooms, and all LRC Tutorial services (i.e. General Tutorial, Math Lab and Writing Center).

The second floor holds most of the print collection. There are tables, lounge seating, study carrels, and group study rooms where students can find a quiet place to work or to read. There are also two classrooms upstairs for regularly scheduled classes and workshops (Lodgepole 203 and 205). Both of these rooms are equipped with the latest computer and audiovisual equipment.

Hanford LRC, Education Building

Monday – Thursday: 8:00am – 7:00pm

Friday: 8:00am – 4:00pm

Reference Librarian is available:

Monday – Thursday: 9:00am – 6:00pm

The Hanford Education Center LRC, in the Education Building, offers Library and computer lab services. General tutorial, Math Lab and Writing Center services are available in the Student Success center (room E65). The Library in Hanford houses a limited print collection based on the course offerings of the campus; however, students are encouraged to request Library materials from the Visalia campus through the interlibrary loan system.

Tulare LRC, Upstairs in Building A

Monday - Thursday, 8:00am - 5:00pm

The Tulare College Center LRC, located upstairs in Building A, offers Library, computer lab, Math Lab and Writing Center services. Other subject tutoring is available upon request. The Library in Tulare houses a limited print collection based on

the course offerings of the campus; however, students are encouraged to request Library materials from the Visalia campus through the interlibrary loan system.

Distance Education Support Services

The LRC supports distance education students by offering the following services:

- Online library resources: All students have 24 hour access to thousands of online resources through the Library's academic databases and eBook collections.
- Computer Helpdesk: The LRC Student Computer Helpdesk exists to help students with computer login on campus and assist students in accessing their COS email, Banner Web, Blackboard and Canvas accounts.

Summer school hours will vary and will be posted on LRC websites.

Mathematics, Engineering, Science Achievement Program (MESA)

MESA provides math, engineering, science, nursing and applied science majors the academic support they need to navigate their way through their difficult coursework. The program is focused on assisting economically disadvantaged students reach their full academic potential and become professionals in their chosen fields of study. Participating MESA students are offered Academic Excellence workshops, advanced tutoring (Calculus, Trigonometry, Chemistry, and Physics), assistance in transferring, career advising, a student study center, links with student and professional organizations, and professional development workshops. The Student Study Center is open to all math, science and engineering students. Information on the program is available on the COS website. Call (559) 737-6136 for more information.

Orientation Services

Orientation is a required activity for all newly matriculated students at College of the Sequoias. Three options to meet this requirement are currently available: (1) First Giant Step Orientation (offered one week prior to the first week of Fall semester); (2) an online orientation; and (3) face-to-face/in-person orientation. Each option provides general information about the College, resources, and procedures. Students will earn a half unit of credit and will be charged \$23 for a half unit. Non-residents will pay the \$23 half unit fee plus the non-resident fee. Tuition amount is subject to change.

Extended Orientation will also be available by attending a variety of "free" Student Success Workshops that will be offered, such as Time Management, Learn About Financial Aid, Study Skills, Self-Esteem, Discover Your Learning Style, Student Mental Health, etc. For more information on topics and dates contact the Orientation office at (559) 737-5410 or visit the website: www.cos.edu.

Students selecting the online option will go to www.cos.edu and click on "Orientation." After viewing the online orienta-

tion, the questionnaire and information which appear at the end of the orientation must be completed and submitted electronically to receive credit for this portion of the orientation process. Face-to-face orientations are typically offered the first two weeks of each semester (additional dates may be offered). Call the Orientation Office (559) 737-5410 or check the website at www.cos.edu for more information.

In order to complete the matriculation process for Orientation, students must complete the following: 1) one of the three orientation options; 2) placement testing in the Assessment office; and 3) see a counselor to complete a student educational plan. A student is then ready to register for classes online at www.cos.edu. Computers are available for use with the COS matriculation process in the Sequoia Building. A matriculation exemption is granted if the student has previously participated in a COS orientation; is transferring to COS from another college; or is enrolling in six units or less and has no plans to obtain a degree, certificate, or participate in a transfer program. (It is recommended that all new students participate in one of the orientation options to promote student success.)

Outreach Services

The Outreach Office is located in the Sequoia Building, room 104. Students and guests are welcome to drop in between the hours of 8:00am – 4:30pm. To contact the Outreach Department call the Coordinator at (559) 737-5410 or email amberb@cos.edu.

Puente Project

The mission of the Puente Project is to increase the number of educationally underserved students who enroll in four-year colleges and universities, earn degrees and return to their communities as leaders and mentors to succeeding generations. Puente is open to all students. Puente students sign up for a transfer program that will help them to develop necessary skills to accomplish their goals.

There are four main components to the program:

English instruction: Puente students will be enrolled in two consecutive accelerated writing courses: English 251 for the fall semester and English 1 in the spring. Both courses focus on Latino authors, culture, and issues.

Counseling: Puente students work closely with their Puente counselor until they graduate. The counselor tracks their progress and helps to develop and monitor an educational study plan and for personal/career counseling. This allows students to make the right choices through their college experience. In addition to the English courses, students will enroll concurrently in counseling/study skills classes.

Mentoring: Each Puente student will be paired with a mentor from the professional community. Students will be required to meet with mentors on a regular basis for sharing of experiences, job shadowing, and networking.

Activities: Puente students are required to attend a statewide conference and to take field trips to a variety of UC campuses, attend lectures, plan social events, and become involved in the Puente Club events. Students considering applying to enter the program who are employed should work no more than 20 hours per week, so that they will be able to take advantage of all the project has to offer. Students will be asked to be available on some Thursday evenings or weekends for program activities.

For more information contact call (559) 730-3853 or Puente Center in Tule 569A, (559) 737-4850.

Scholarship Program

College of the Sequoias offers over \$130,000 in scholarship awards each year to eligible student applicants. Awards sponsored by the College, COS Foundation and many community donors range from \$100 to \$2,500 and are offered to incoming freshman, continuing sophomores, and graduating/transferring students. The online COS Scholarship Application and Directory may be accessed from the COS website: www.cos.edu/scholarships. The Scholarship Office is located in the Sequoia Building, Room 3. Contact number: (559) 730-3878.

Student Health Center

All registered students are eligible for confidential health care services in the Student Health Center, most of which are supported by the Student Health Fees. Health services include nurse assessment, testing of blood pressure, glucose, vision and hearing, immunizations, communicable disease control and tuberculosis testing. Planned Parenthood services are available including pregnancy testing, STD testing and treatment, contraceptive care and reproductive health education. Psychological and mental health screening and counseling by mental health professionals are also available and provide different stages of services depending on the level of care the student requires. The Student Health Center also provides an emergency food pantry and snack station, along with monthly health education awareness events.

This list is only a sample of the services available to all currently enrolled COS students who pay the health fee, and all services listed are totally covered by that fee. The student health fee is set by the California Community College Chancellor's Office and approved by the Board of Trustees. The current student health fee is \$19.00 per semester, and \$16.00 for summer sessions.

While the College does not provide general health insurance, the health fee does pay for an accident policy which covers accidents students may incur while at school or attending a school-related function. For information regarding an independent health insurance plan available at personal cost to students, brochures are available at the Student Health Center. For more information about any of the health services listed here, call the Student Health Center at (559) 730-3880.

Transfer Services

These services help students prepare for transfer to a university. Examples of services include: regularly scheduled visits by representatives from other colleges and universities, workshops, assistance with completing applications, catalogs and a reference library. Contact Transfer Services by calling (559) 730-3715.

Tutorial Center

The Tutorial Center provides small group tutoring and walk-in tutoring for a variety of subjects, including Math, English, Chemistry, Biology and Computers. The Tutorial Center is located in the Learning Resource Center (Lodgepole Building). The center is open Monday through Thursday 7:30am-7:30 pm and Fridays 7:30am-3:30pm. There is helpful information available in the center at no cost. It includes information in the areas of note taking, study skills, test anxiety, improving memory and test taking. Tutoring is also offered at the Hanford and Tulare Centers. For more information, call (559) 730-3820 or (559) 737-6241.

Veterans Educational Benefits

The Veterans Resource Center (VRC) provides assistance to qualified veterans, reservists and dependents of veterans. Services include counseling, certification of benefits, a lending library, computer lab and a veteran's lounge. All veterans are urged to contact the VRC to take advantage of the services provided. Location: Visalia Campus, Sequoia 106. For more information, please call (559) 730-3854.

Welcome Center

The Welcome Center provides services to help new students make a smooth transition into College of the Sequoias and helps continuing students locate resources and services they may need while attending the College. Additionally, the Welcome Center can help with questions regarding admissions, registration, financial aid and more. Location: Visalia Campus, Sequoia 104. For more information, please call (559) 730-3730.

Workforce Innovations and Opportunity Act Program (WIOA)

The WIOA Program provides a wide range of opportunities that will improve the self-sufficiency skills of low-income students and enhance their ability for long-term employment. Students may be eligible for sponsorship if they are unemployed, underemployed or economically disadvantaged. Location: Visalia Campus, Sequoia 108. For more information, please call (559) 730-3818.

Work Experience

The Work Experience Program offers students the opportunity to earn elective credit (1-4 units) related to work they perform within the community. This program is open to students from all majors with acceptable employment (paid or volunteer).

Students interested in participating may contact Lisa Greer in the Sycamore Building, or call (559) 730-3742.

Student Employment/Work Study

College of the Sequoias offers on- and off-campus student employment. On-campus student employment is funded by various departments and programs, including Federal Work Study and CalWORKs Work Study. On-campus positions are posted online at the COS website: hire.cos.edu.

In order to receive Federal Work Study, students must first submit a FAFSA and receive an FWS Invitation letter. CalWORKs Work Study is available to eligible students receiving TANF cash aid. If interested in CWWS, visit the Student Services Specialist in the CalWorks office in the Sequoia Building-Room 112. If interested in Federal Work Study, visit Sycamore IM109 or call (559) 730-3856.

Student Field Trips

Student Transportation

Throughout the school year various classes will meet at off-campus locations. The College will not provide transportation to these sites and all transportation arrangements are the responsibility of each of the students enrolled in the class. Although district personnel may assist in coordinating this transportation and/or may recommend travel time, routes, caravans, etc., these recommendations are not mandatory. The District is not responsible nor does the District assume liability for any injuries or losses resulting from non-district sponsored transportation. If a student rides with another student, that student is not an agent of, or driving on behalf of, the District.

Voluntary Field Trips

Throughout the school year, the district may sponsor voluntary field trips and excursions in which students may want to participate. Be advised as stated in the California Code of Regulations, Sub Chapter 5, §55220(h), if students participate in a voluntary field trip or excursion, they are deemed to have held harmless the District, its officers, agents and employees from all liability or claims which may arise out of or in connection with students' participation in this activity.

Academic Divisions

Division Chairs for each division are elected by their peers and then appointed by the Superintendent/President. Not only are they instructors at the District, they play a major role in planning at the District. By design, the duties of Division Chairs are to foster and assist in representing to administration information, concerns and goals of the members of the division. A few of their responsibilities are the coordination of division committees; facilitating faculty input to schedule building and course selection; providing orientation for new staff members in division related matters; assisting and advising members of the division in the preparation and monitoring of the division budget and on the purchase of technical or instructional materials; and representing the District to the community.

Agriculture

Fernando Fernandez, Chairperson

California's largest industry is Agriculture. College of the Sequoias is situated in the heart of Tulare County, which is among the top agriculture-producing counties in the nation. In recognition of these two facts, the Tulare College Center opened in January 2013. The campus is home to a 450-acre farm with land dedicated to the production of crops. It has an Animal Science Complex with lab areas for beef cattle, swine, sheep and horses. The Tulare College Center campus also includes lab areas for Plant Science and Horticulture.

A variety of educational and career opportunities are available for all agriculture students. These include Achievement and Skill Certificates, Associates of Science degrees and general education classes in preparation for transfer to a four-year university. The Agriculture Program at COS also offers evening and short-term classes designed for individuals who seek to upgrade existing job skills.

Faculty in the Agriculture Program are experienced teachers who are experts in their disciplines and dedicated to helping students learn. Adjunct faculty are practicing professionals in their fields whose teaching abilities and expertise enhance the educational experience for all students.

Supervised work experience is an integral part of instruction in the Agriculture Program and provides interaction with professionals in many areas of the industry. Clubs representing every agricultural major are important and have an active presence on campus. The Ag Council oversees activities by the Ag Ambassadors, Ag Business, Ag Mechanics, Livestock, Dairy, Equine, Ornamental Horticulture, Floriculture, and Plant/Crop Science clubs. Students may also audition for the only community college Varsity Women's Equestrian Team in California. By participating in clubs and other extracurricular activities, students develop invaluable skills that will serve them throughout their lives.

Business

Janell Spencer, Chairperson

The mission of the Business Division is to educate and train students for employment in the business world while also meeting the lifelong learning and retraining needs of our local community. The courses, certificates, and majors offered by the Division are designed to support the dual transfer and vocational missions of the College.

A broad range of transfer-level courses is available for students seeking to pursue a four-year degree. Associate of Science degrees are offered in accounting, business, computers, and paralegal areas. Several vocational certificates are available to assist students who are interested in updating business skills or who will directly enter the job market.

The Division provides hands-on experience in the following:

- Access
- Excel
- Word
- Java
- Visual BASIC
- Computer Operating Systems
- Keyboarding Software
- Lexis Nexis Legal Research
- InDesign
- PowerPoint
- QuickBooks
- JavaScript
- PHP
- SQL
- Tax preparation software
- Adobe Dreamweaver

To meet the needs for computer knowledge and experience, the Business Division offers both beginning and advanced courses. Classes are scheduled during the day, evening, and online. Facilities include computer classroom/labs and a dedicated computer lab.

Students may select a concentrated field of study leading to a degree and/or a certificate in the following fields:

- Accounting
- Business Financial Recordkeeping
- Business
- Computer Applications
- Computer Programming and Information Systems
- Legal Secretary/Law Office Clerk
- Paralegal

Paralegal Program

The objective of the Paralegal Program is to prepare students for careers as paralegals. A paralegal is a person qualified by education, training, or work experience who is employed or retained by a lawyer, law office, corporation, governmental

agency, or other entity and who performs specifically delegated substantive legal work for which a lawyer is responsible.

A paralegal is not an attorney and, therefore, cannot give legal advice or represent another in court, except under very limited circumstances provided by law. This is not a four-year transfer program or a pre-law program. The program includes work experience and assistance with job placement.

Consumer/Family Studies

Millicent Owens, Chairperson

The Consumer/Family Studies division is dedicated to improving the quality of life for our diverse student population and their families within the global community. Our mission is to support acquisition of basic skills and provide pathways leading to careers in child development, education, nutrition and foods, fashion merchandising and design. Consumer/Family Studies offers classes that meet requirements for Associate Degrees, vocational certificates, and general education.

Areas of Study

The Child Development Department provides courses leading to work in private child care programs and preschools as well as courses to earn a Child Development Permit for employment in state- or federally-funded programs. Additional course work is offered for infant/toddler care, administration for director qualifications, and for a Special Education option. Students may obtain 6-unit, 12-unit, or 24-unit Child Development vocational certificates, an AS degree in Child Development and/or classes for a transfer degree option. Child Development (CHLD) 042 will fulfill a CSU, Area D3 and IGETC Area 4 transfer general education course; CFS 080 will fulfill a CSU Area E and IGETC Area 4 transfer general education course; and Child Development (CHLD) 039 will full a CSU Area D3 or E and IGETC Area 4 transfer general education course.

The Nutrition and Culinary Department offers three culinary certificates at 8, 14 and 21 units for students to obtain or upgrade employment in the food service industry. Nutrition (NUTR) 018 will fulfill the COS Area B (science) for an AA/AS degree and CSU Area E transfer general education course. NUTR 020 is a transfer course that will fulfill a CSU transfer Area D3 or E, and IGETC transfer Area 4 general education course.

The Fashion Program provides classes for persons interested in fashion merchandising, fashion design and clothing construction. These classes lead to AS degrees; FASH 076 transfers to UC system. Six vocational certificates in Fashion Design and Fashion Merchandising are available.

The Consumer Family Studies Division also includes education courses. EDUC 050, Introduction to Teaching, fulfills the CSU Teacher Credential admission requirement for on-site school observation.

Fine Arts

Tom Weise, Chairperson

The Fine Arts Division includes the following Departments: Art, Dance, Drama, Music and Communication. The division actively sponsors a plethora of art shows, musical concerts, and plays providing students an avenue to express themselves in a variety of artistic endeavors. The following Associate of Arts degrees and certificates are offered:

Associate in Arts Degrees:

Art History
Communication Studies
Music
Studio Arts

Associate of Arts Degrees:

Art
Dramatic Arts: Acting
Dramatic Arts: Technical
Music

Certificates:

Commercial Art
Commercial Music
Communication Studies

Performing Arts Organizations:

Chamber Singers
Commercial Music/Recording Studio
Community Band
Concert Band
Concert Choir
Dance Arts Productions
Fall Plays
Jazz Bands
Music Theater
Student One Acts
Symphony Orchestra
Youth Symphony

Industry and Technology

Frank Tebeau, Chairperson

The COS Industry and Technology Division is dedicated to serving the needs of all students interested in furthering their industrial education at the college level. Our eleven departments provide educational opportunities for students seeking job skills needed for employment, transferable credits for students who plan on transferring to a university, and opportunities for persons wishing to upgrade their job skills in order to advance in their current jobs. The Industry and Technology Division offers Associate of Science degrees and certificates in Automotive Technology, Architecture, Construction Technology, Drafting Technology, Information and Communication Technology, Electrician Training, Water and Wastewater Treatment, Graphic Design, Heating Ventilation and Air Conditioning, Industrial Maintenance, Machining and Manufacturing, and Welding. The Industry and Technology Division stresses quality teaching/learning through formal classroom lecture/

discussion methods as well as plenty of hands-on “learn-by-doing” in well-equipped laboratory facilities.

Language Arts and Communications

David Hurst, Chairperson

The Language Arts Division encompasses several departments: English, English as a Second Language, Foreign Languages, Sign Language Studies, Linguistics and Journalism. Some courses offered in the division meet the Area C requirements for the AA/AS degree and for transfer to the CSU system; many also fulfill the Area 3 requirements to the UC system. Spanish, Portuguese, and ASL fulfill foreign language requirements of the UC system as well.

Most students at COS take composition courses to fulfill either transfer or graduation requirements or to enhance their writing skills. Faculty in the English Department help students improve reading, writing and thinking abilities, all of which are necessary components in any major field of study. The composition courses vary in entry skill level from basic writing, where students learn to develop and sharpen their writing, to the critical thinking courses, in which students tackle issues and elements of logic. In addition to the composition courses, the department offers a wealth of courses in literature from survey courses, such as Introduction to Literature, to ethnic courses, such as Chicano Literature or African-American Literature, to period literature, such as Shakespeare or American Literature. Several courses are offered online, allowing students to meet minimally on campus and to do the majority of the coursework from their own homes. The English Department houses the Puente Project, a transfer program for students interested in studying Latino culture and issues and in transferring to the University of California. The department also runs the Writing Center, a place for any student in any discipline to receive feedback and assistance on any college writing project at any stage of the writing process. The Writing Center offers students across campus support and resources from laptop computers and printing capabilities to trained student tutors and English and ESL faculty to help with any essay. Increasingly, employers demand strong reading and writing skills of their employees, in addition to the ability to work with a variety of people successfully: English classes hone these skills. An English major prepares a student for a number of professional opportunities — law, teaching, publishing, broadcasting, journalism, and many more. The department also sponsors a Creative Writing club that annually produces the literary magazine, *The Working Title*. The courses of study within the English Department emphasize growth, communication, and the ability to live life more deeply.

Coursework in English as a Second Language is intended for students whose first language is one other than English. The program differs from that offered through the adult school in its rigor and focus. Courses make college-level demands on students, requiring intense study in and outside of class, and they focus on academic reading, writing, speaking and listening skills, rather than the life-skills focus of the adult school program. Intermediate courses are designed for students with minimal skills in one or more of the reading, writing, speaking

and listening areas; advanced courses are equivalent in rigor to developmental composition courses in the English department but stress improvement of the skills with an emphasis on the special needs of the non-native speaker. The program seeks to support and encourage students as they take coursework elsewhere in the college curriculum, and thus many students take courses simultaneously in ESL and in other disciplines. The ESL department also offers a non-credit, no cost program for students who want to learn English but do not need college credits. There are options both on campus and in local off-site locations to complete non-credit beginning, intermediate, and advanced certificates in ESL. A transfer level Linguistics class that satisfies the requirement for prospective primary school teachers is offered via this department as well.

The Foreign Language Department offers transfer courses in Portuguese and Spanish. The Foreign Language Department believes that it is in the interest of all students to become bilingual or fluent in many languages in order to compete in today’s global community. Therefore, the instructors in the department provide a sequenced program of courses that support the goal of fluency in speaking, reading, writing and comprehension. Besides offering Portuguese 1-2 and Spanish 1-4, the department also features a vital Spanish for Spanish Speakers Program (Spanish 22-23) and a survey of literature (Spanish 12). The Spanish program and instructors are particularly active, sponsoring activities like the campus MEChA club and a Dia de los Muertos display. A particularly popular Certificate of Achievement offered by the Spanish department is the Interpreter (Spanish) Certificate that encompasses a group of courses designed to lead a student to the successful completion of the California state interpreters exam.

American Sign Language (ASL) was introduced at COS in the early 1980s. From a few evening classes, the ASL Department has grown into a vibrant program. Currently, students can take four levels of ASL. We also offer an interpreting course to train students who are interested in becoming qualified interpreters for, as well as teachers of, the deaf.

The Journalism Department is responsible for the production of the COS student-run newspaper, *The Campus*. Students interested in journalism can gain invaluable experience — seldom offered to students in their first two years at a four-year college — in all areas of newspaper production, from news and editorial writing, to photojournalism and layout. The journalism computer lab offers students the opportunity to design and print both hard copy and online versions of the newspaper, simulating the production of local and national newspapers. In addition, the courses in “Mass Communication” and “Cultural Issues in Film/TV/Web” also meet a transfer requirement in Area 4 for the CSU and UC transfer.

Good experiences learning languages, writing, and literature are available in the Language Arts Division!

Math and Engineering

Jared Burch, Chairperson

The Mathematics Department offers courses for basic skills instruction, general education, and support curricula for math, science, computer science and engineering majors. An Associate Degree is offered in Mathematics which is designed to prepare students to transfer to a university with a solid foundation in mathematics. In addition to traditional coursework, the department supports a tutorial and computer lab which is available for walk-in use by students enrolled in math courses.

The Engineering Department offers the lower-division courses required for most engineering students. Additionally, an Associate Degree in Engineering is offered which provides the solid foundation that universities require in their upper-division students. Engineering students are frequently given the opportunity to participate in projects and competitions to enhance their coursework.

The Math and Engineering departments have transfer agreements with most University of California campuses and California State University campuses, which accept transfers from these programs into the junior year of study. See a COS counselor for more information.

Nursing and Allied Health

Terri Paden, Chairperson

The College of the Sequoias Division of Nursing and Allied Health offers a variety of courses and programs for students interested in the health care field. Included among these are Emergency Medical Technician Certificate; Nursing Assistant Certificate; Pharmacy Technician Certificate; Associate Degrees for Physical Therapist Assistant and Registered Nursing as well as a variety of courses designed to meet the health education needs of the community.

Educational programs are planned to help students maximize their potential and to enhance career mobility. The nursing curriculum integrates scientific knowledge of professional nursing and general education courses to fulfill requirements of College of the Sequoias and the State of California Board of Registered Nursing. Nursing and general education classes are taken on the college campus; nursing laboratory classes are offered in selected hospitals and community health care agencies. The faculty is directly responsible for teaching nursing classes and supervising clinical experience.

The purpose of the Nursing and Allied Health Division is to provide a sound program for the education of students in the nursing and allied health care areas and to provide beginning practitioners to safely and effectively meet community health care needs. The Division welcomes applications from qualified men and women of all ages, races and ethnic origin groups.

Students who are interested in health care education are encouraged to visit the Nursing and Allied Health Division website or the Nursing Division Office for additional information. A

nursing program information tutorial is available at the Nursing Division Office.

Safe nursing practice is necessary for retention of students in the nursing program. If, at any time, a student's conduct and/or patient care displays a potential harm to the well-being of patients, or if, at any time, the physical or emotional health of a student appears such that he or she cannot withstand the program in nursing, based on the professional judgment of the faculty, the student may be asked to terminate from the nursing program. The amount of time that can be lost in any nursing course, for any reason, is stated in the Nursing Student Handbook.

Physical Therapist Assistant

Jonna Schengel, Ed.D., Program Director

The physical therapist assistant curriculum integrates scientific knowledge of physical therapist assistant and general education courses to fulfill requirements of the College of the Sequoias and the Commission on Accreditation of Physical Therapy Education (CAPTE). The physical therapist assistant and general education classes are taken on the college campus and clinical education courses are offered in selected hospitals and community health care agencies. The faculty is directly responsible for teaching the physical therapist assistant classes and supervising the clinical experience.

The purpose of the PTA program is to provide the necessary academic, lab and clinical experiences to provide students with the professional competencies necessary to provide Physical Therapy services under the direction of a Physical Therapist. The program admits 26 new PTA students per year following the application cycle. The program welcomes qualified applicants regardless of race, gender, age or ethnic origin.

Regular monthly information meetings are held for all students interested in physical therapist assistant education, on the first Tuesday of every month in HR 133.

Safe physical therapist assistant practice is necessary for retention of students in the physical therapist assistant program. Attendance to class, lab and clinical experience is mandatory. If, at any time, a student's conduct and/or patient care displays a potential harm to the wellbeing of patients, or if, at any time, the physical or emotional health of a student appears such that he or she cannot withstand the program in physical therapy assistant, based on the professional judgment of the faculty, the student may be asked to terminate from the physical therapy assistant program. The amount of time that can be lost in any PTA course, for any reason, is stated in the Physical Therapist Assistant Student Handbook.

Physical Education

Tracy J. Myers, Chairperson

The Division of Physical Education consists of the departments of PEAC (Physical Education Activity Courses), Health and Wellness, Intercollegiate Athletics, Dance, Kinesiology, and Sports Medicine. It is an educational process that uses physical activity, lecture and sport as a means to help individuals acquire skills, fitness, knowledge, and attitudes that contribute to their optimal development and well-being.

At College of the Sequoias, the Physical Education Division covers a broad area of interests. Courses are offered in the areas of Aerobics, Aquatics, Dance, Fitness, Health & Wellness, Mind/Body Wellness, Sports Activities, Sports Medicine and Athletic Training, Weight Training, and more. We also have an outstanding Intercollegiate Athletic Program which offers collegiate competition to student athletes in a variety of sports.

The facilities include a field house, gymnasium, all-weather track with a synthetic turf infield, dance studio and aerobic room, a weight room, a multi-purpose fitness room, and tennis courts. State of the art baseball and softball complexes, as well as a swimming and diving pool, are located on the Visalia campus. The Sports Medicine facility includes the newest technology for athletic training.

Through the courses offered in the Physical Education Division, we are preparing students with life skills necessary to lead a healthy and productive life.

Science

Julie Rodriguez, Chairperson

The Science Division supports lifelong learning, diversity, economic growth and advancement of basic skills by providing a wide range of courses that are program/major specific, transfer level, general education, pre-vocational and courses provided as community service.

The courses taught by the science division are designed to develop basic skills, knowledge levels, and critical thinking abilities and to provide a foundation for future educational experiences. Our focus is on the process and product of scientific inquiry. A primary goal is to facilitate student growth and success while maintaining reasonable academic standards in course content, level and grading.

The division consists of the departments of Biology, Chemistry, and Physics. Major programs are offered in each of these disciplines. Each of these areas additionally offer transferable courses accepted by both private and public colleges and universities.

If you plan on transferring to a California public university, please visit www.assist.org. This website will list the COS courses that are transferable to the institution of your choice.

Other disciplines taught in this division include Astronomy, Geology, Physical Anthropology, Physical Geography and Meteorology.

Biology is the largest department in the division and offers a wide variety of courses for non-majors and majors alike. The department offers courses required for students majoring in allied health fields such as nursing, dental hygiene, physical therapy and sports medicine. Students preparing for pre-dental and pre-medical majors normally major in Biological Sciences and can find all the required courses available at COS. Please consult with your counselor if you are planning such a major since there are many prerequisites for the required courses. Creating a Student Education Plan (SEP) early in your academic career will reduce the chance of taking courses you do not need for transfer.

Science majors are invited to participate in two programs designed to improve transfer to the university: MESA and SETA. MESA provides students with academic support services such as advising and tutoring. SETA is the student science club. Both programs provide information on scholarships, internships, field trips and enrichment opportunities.

Social Sciences

Alicia Crumpler, Chairperson

The faculty and staff of the Social Science Division are dedicated to helping students develop their intellectual, personal and civic potential through the study of the human condition. Social scientists use various methods to make decisions including reasons, emotions and the scientific method. Courses cover several disciplines that might be of interest for students planning a career, participating as a citizen and living a meaningful life.

Administration of Justice
 Anthropology
 Human Services
 Economics
 Ethnic Studies
 Geography
 History
 Philosophy
 Political Science
 Psychology
 Social Science
 Sociology

Students have many options for designing a workable schedule and choosing a successful learning environment. Classes are available in daytime and evening; some classes begin later in the semester. A student can learn face-to-face in a classroom, online using a computer or with a combination of online and face-to-face in a hybrid class. Most information is presented several ways to help learners whether it is a lecture, visual presentation, small-group discussion or student presentation.

Social Science professors guide students to success. Courses meet four-year university transfer and community college as-

sociate degree requirements. Degrees available in the Social Sciences Division include the following:

Transfer Degrees

Administration of Justice
 Anthropology
 Economics
 History
 Political Science
 Psychology
 Sociology

Not for transfer Degrees and Certificates

Administration of Justice: Law Enforcement degree
 Administration of Justice: Corrections degree
 Human Services (Social Work) degree
 Human Services (Social Work) certificate
 Liberal Arts with an area of emphasis in Social and Behavioral Sciences

Caring professors welcome and guide students during visits to their offices. They support students of all ages, races, cultures, gender orientation and disability in their learning and academic goals.

Student Services

Meng Vang, Chairperson

Mission Statement

The mission of Student Services is to empower students to achieve personal, academic and vocational success through self-evaluation, skillful decision making, careful planning and commitment.

Counseling

Counselors at College of the Sequoias provide complete educational and career guidance services. They meet with students on an individual basis for a range of purposes: interpreting the assessment scores, recommending further assessment/testing, determining specific courses for immediate and future registration and developing a Student Educational Plan, which reflects the current goal of the student and identifies needs for referrals and services.

Students wishing to change their major should see a counselor to revise their Student Educational Plan. Personal and social concerns are also addressed as they relate to college success. Students are encouraged to take advantage of these services offered at no cost.

Courses

The Counseling and Human Development courses provide an opportunity for students to develop career decision making and college success skills. In addition to the courses, the Division offers college orientation to prepare students for a successful entrance into college life. With the introduction of the supportive services at the College through orientation,

students become informed of the resources available to them. Students also become aware of their rights and responsibilities.

Access and Ability Center

The Access and Ability Center (AAC) works individually with students who have physical, communication, and learning disabilities, acquired brain injuries and psychological disabilities to enhance their access and success in classes and activities at COS.

Services include disability-related counseling, learning disability assessment, instructional support, note-taking assistance, extra time and other testing accommodations, and specialized equipment loans.

Other services include in-class sign language interpreters, specialized tutoring, and videophone access for deaf and hearing-impaired students. Students with disabilities attending College of the Sequoias are able to receive instructional materials in alternate formats to assist them in achieving academic success. Alternate formats include Braille, electronic text, large print, and tactile graphics. In addition, members of the community who have disabilities may request COS publications in alternate formats.

Through the provision of these services, the AAC attempts to maximize the student's potential and to facilitate success in college.

Puente Project

The Puente Project counselor provides services to educationally-underserved students in order to increase their opportunity to transfer to a university and become future leaders in their communities. The Puente counselor teaches courses, counsels students, and works with mentors in the community.

Work Experience

The Work Experience Program offers students the opportunity to earn elective credit (1-4 units) related to work they are doing within the community. This program is open to all majors with acceptable employment (paid or volunteer). Students interested in participating may contact Lisa Greer at (559) 730-3742.



Transfer Information and Requirements

Students planning to transfer have a wide variety of options. The California State University with 23 campuses, the University of California with 10 campuses, and over 60 private/independent colleges in California provide a wide range of academic programs, physical and academic environments, and social climates. College of the Sequoias offers the equivalent of the first half of these college and university programs. Students wishing to pursue any of these goals should meet with a counselor as early as possible to discuss their plans. Careful planning will help students avoid mistakes which could prolong their academic pursuits.

Successful transfer planning requires the following steps:

- Selecting a career goal
- Selecting an appropriate major to meet your career goal
- Selecting an appropriate college or university
- Planning and completing an appropriate transfer program
- Completing the application process.

All colleges and universities have specific admissions requirements and may have special course and unit requirements, as well as minimum grade point averages that must be met prior to transfer. Once students identify their major and the college or university to which they wish to transfer, they should consult the catalog of that college or university for specific requirements. Catalogs for the California State University campuses, the University of California campuses, and selected private/independent colleges are available online and in the Transfer Center. Students interested in purchasing their own catalog can do so by writing directly to the college or university.

Colleges and universities require students to complete specific general education requirements as well as major requirements for the baccalaureate degree. Students can complete both general education and lower division major requirements at COS prior to transfer. COS maintains articulation agreements for selected majors at many colleges, and COS counselors can assist with interpreting the agreements, catalog statements, and other requirements.

In accordance with Executive Order No. 167 from the Chancellor's Office of the California State Universities and Colleges, College of the Sequoias has developed a list of courses which are baccalaureate level. Courses that are numbered 1-199 are accepted by the California State Universities and most private, independent colleges. Courses numbered 1-99 are accepted by the University of California; however, students should consult the "University of California Transfer Course List" in this catalog for specific limitations. COS courses that transfer to universities meet various requirements depending upon the school and major selected.

Students are responsible for complying with regulations and instructions set forth in catalogs, for selecting the courses which will permit them to meet their educational objectives, and for

satisfying any program or course prerequisites. College requirements and articulation agreements are constantly changing; the following pages represent our best attempt to provide current and pertinent information for transfer students.

The California State University Minimum Upper Division Transfer Requirements

If a student has completed at least 60 transferable semester (90 quarter) units, has a grade point average of 2.0 (C) or better in all transferable units attempted, and is in good standing at the last college or university attended, he may be eligible for upper division transfer if he has completed at least 30 semester (45 quarter) units of college courses with a grade of "C" or better in each course to be selected from courses in English, arts and humanities, social science, science and mathematics at a level at least equivalent to courses that meet general education requirements.

The 30 semester (45 quarter) units must include all of the general education requirements in communication in the English language (at least 9 semesters or 12 quarter units to include written communication, oral communication, and critical thinking) and mathematics (at least 3 semester or 4 quarter units) or, if completing the Intersegmental General Education Transfer Curriculum, English communication (at least 9 semester or 12 quarter units in English composition, oral communication, and critical thinking) and the requirement in mathematics (at least 3 semester or 4 quarter units). Required courses must be completed by deadlines established by the university.

New Degrees for CSU Transfer Students:

Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T)

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to California State University (CSU) campus for any community college student who completes an "associate degree for transfer," a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to com-

plete the degree for more information on university admission and transfer requirements.

The following is required for all AA-T or AS-T degrees:

1. Minimum of 60 CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
3. Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major as detailed in the Degrees for Transfer section of the catalog. All courses in the major must be completed with a grade of C or better. (Title 5 §55063).
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern, including Area 1C: Oral Communication (CSU requirement only).

At the time of catalog publication, a student may earn an AA-T or AS-T in the following areas:

- Administration of Justice AS-T
- Anthropology AA-T
- Art History AA-T
- Biology AS-T
- Business Administration AS-T
- Communication Studies AA-T
- Chemistry AS-T
- Early Childhood Education AS-T
- Economics AA-T
- English AA-T
- Elementary Teacher Education AA-T
- Geology AS-T
- History AA-T
- Journalism AA-T
- Kinesiology AA-T
- Mathematics AS-T
- Music AA-T
- Philosophy AA-T
- Physics AS-T
- Political Science AA-T
- Psychology AA-T
- Sociology AA-T
- Spanish AA-T
- Studio Arts AA-T
- Theatre Arts AA-T

Requirements are listed in the Degrees for Transfer section of the catalog. Additional majors are being developed. Please see a counselor for more information.



General Education Requirements for CSU

All campuses of the CSU system require a minimum of 48 units of general education. Thirty-nine of these units may be taken at community colleges. Beginning with Fall 1991, students may fulfill the lower division general education requirements prior to transfer by completing one of the following three options.

1. The California State University General Education (CSU GE) Certification which will fulfill the lower division breadth/general education requirements for all CSU campuses
2. The Intersegmental General Education Transfer Curriculum (IGETC) certification which will fulfill the lower division breadth/general education requirements for all CSU and most UC campuses.
3. The specific lower division breadth/general education requirements of the campus to which they intend to transfer.

The California State University General Education Certification (CSU GE) and Intersegmental General Education Transfer Curriculum (IGETC) patterns are listed on the following pages. Students should consult a COS Counselor to determine which option is best suited for their educational objective.

CSU GE is listed on pages 68-69.

IGETC is listed on pages 70-71.

COLLEGE OF THE SEQUOIAS
CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION PATTERN (CSU GE)
2016-2017 ADVISING FORM FOR CSU TRANSFER STUDENTS

Name:

SS#

DIRECTIONS: (1) Circle courses completed and enter units completed in "UC" column; underline courses in progress and enter units in progress in "UP" column; enter units needed in "UN" column. (2) Enter courses with old prefixes/numbers, and courses once approved and since deleted on the "SPECIAL ENTRY" column; enter the semester the courses were completed on the "SPECIAL ENTRY" column (e.g. CHEM 2A-F89) enter units completed in the "UC" column. (3) Enter units completed at other colleges in the "OC" column and complete the PASS ALONG worksheet on reverse side. (4) Enter name of AP Exam on the "SPECIAL ENTRY" column (see reverse side for list of AP Exams approved to clear specific CSU GE AREAS), and enter units in units completed "UC" column.

(LEGEND: UC=Units Completed; OC= Other College; UP=Units in Progress UN= Units Needed)

	SPECIAL ENTRY FORMERLY APPROVED COURSES & AP EXAMS	U C	O C	U P	U N
<p>AREA A: ENGLISH LANGUAGE COMMUNICATION & CRITICAL THINKING. Choose one course from each area (9 units min.) All courses must be completed with a "C" or better.</p> <p>A1: Oral Communication: COMM 1, 4, 7, 8, #112 A2: Written Communication: ENGL 1 A3: Critical Thinking: AJ 25*, ENGL 2, PHIL 20, 25, COMM 5</p> <p>* AJ 25 can be counted in one AREA ONLY (A3 or D8) # Same as BUS 112</p>	A1:				
	A2:				
	A3:				
<p>AREA B: SCIENTIFIC INQUIRY & QUANTITATIVE REASONING. Choose one course from each group (9 units minimum). One laboratory science required (<u>Labs underlined</u>). Course in Group 3 must be completed with a grade of "C" or better.</p> <p>Group 1 (B1): Physical Sciences: AG <u>4</u>, ASTR 10, CHEM <u>1, 2, 12, 13, 20, 21</u>, GEOG 1, <u>1L</u>, GEOL <u>1,4, 4L,12, 5</u>, MET 1, PHYS <u>5,6, 7, 20, 21, 55, 56, 57</u>, PSCI <u>20</u></p> <p>Group 2 (B2): Life Sciences: AG 2, ANTH 11, BIOL <u>1,2,20, 21, 22, 25, 30, 31, 40</u>, PLSI <u>1</u></p> <p>Group 3 (B4): Mathematics: BUS 20, 119, MATH 10, 11, 21, 70, 65, 66, 67, 80, 81, 154, SSCI 25</p>	B1:				
	B2:				
	B4:				
<p>AREA C: ARTS AND HUMANITIES. Must choose at least one course from Group 1 and one course from Group 2 (9 units minimum).</p> <p>Group 1 (C1): Arts: ARCH 70, 71, ART 1, 2, 3, 4, 5, CINA 31, 32, MUS 1, 4, 5, 6, 7, 10, 11, 13, 14, DRAM 1, 2, 3, 6*</p> <p>Group 2 (C2): Humanities: ASL 1, 2, 3, 4, AJ 123, BUS 185, DRAM 6*, ENGL 4, 10, 15, 16, 18, 19, 30, 31, 44, 45, 46, ETHN 1*, 2*, 3*, 4*, HIST 4*, 5*, 17*, 18*, 23*, 25*, LING 111, PHIL 1, 5, 12, 13, 14, PORT 2, SPAN 1, 2, 3, 4, 12, 22, 23,</p> <p>* DRAM 6 can be counted in ONE AREA ONLY (C1 OR C2); ETHN 1, 2, 3, & 4 can be counted in ONE AREA ONLY (C2 or D3); HIST 4, 5, 17, 18, 23, & 25 can be counted in ONE AREA ONLY (C2 or D6)</p>	C1:				
	C2:				
	C:				
<p>AREA D: SOCIAL SCIENCES. Must choose at least one course from Group 1 and one course from Group 2 (9 units minimum). If HIST 17 or 18 is used to meet AREA C2 above choose one course from Group 2 and two additional courses from Group 1 and/or Group 3.</p> <p>Group 1 (D6) & (US-1: American Institutions Requirement): HIST 17*, 18* Group 2 (D8) & (US-2+US-3: American Institutions Requirement): POLS 5 Group 3 (D1): ANTH 10, 12, (D2): ECON 40, 50, 25, AGMT 1, (D3): ETHN 1*, 2*, 3*, 4*, 5, (D4) SOC 10, (D5): GEOG 2, (D6): HIST 4*, 5*, 23*, 25*, (D7): AG 1, COMM 9, JOUR 20, PSY 5, NUTR 20* (D8): AJ 25*, POLS 6, 8, JOUR 7, SSCI 50, (D9): CHLD 39*, 42, PSY 1*, 10*, 34* (D0): AJ 11, 45, 114, SOC 1, 2, 23, 26*, 43, SSCI 36*</p> <p>* ETHN 1, 2, 3 & 4 can be counted in ONE AREA ONLY (C2 or D3); HIST 4, 5, 17, 18, 23, 25 can be counted in ONE AREA ONLY (C2 or D6); CHLD 39, NUTR 20, PSY 1, 10, 34, SOC 26, SSCI 36 can be counted in one AREA ONLY (D or E); AJ 25 can be counted in one AREA ONLY (A3 or D8)</p>	D:				
	D8:				
	D:				
<p>AREA E: LIFELONG LEARNING & SELF-DEVELOPMENT. (3 units minimum).</p> <p>CFS 80, 186, CHLD 39*, ENGL 14, HW 1, 7, 104, NURS 106, NUTR 18, 20*, PSY 1*, 10*, 34*, 133, SOC 26*, SSCI 36*</p> <p>* CHLD 39, NUTR 20, PSY 1, 10, 34, SOC 26, SSCI 36 can be counted in one AREA ONLY (E or D7/D9)</p>	E:				

MINIMUM ADMISSION REQUIREMENTS FOR CSU TRANSFER STUDENTS:

1. Complete 60 semester units of transferable college credit (courses numbered 1-199) with a GPA of at least 2.0
2. Complete a minimum of 30 semester units of college courses with a grade of “C” or better in each course to be selected from courses in English, arts and humanities, social science, science and mathematics at a level equivalent to courses that meet general education requirements. The 30 semester units must include courses that satisfy CSU GE Areas A1, Oral Communication; A2, Written Communication; A3, Critical Thinking; and B4, Mathematics / Quantitative Reasoning.

Completion of the CSU GE Certification Pattern will satisfy the course requirements for the minimum admissions requirements listed above (#2). Although not required for admission to the CSU, students are encouraged to complete the CSU GE Certification Pattern prior to transfer. For impacted or competitive CSU campuses and majors there may be additional requirements such as completion of specific major courses, completion of certain general education courses by certain semesters, and/or higher grade point averages (see a counselor for advice).

CSU GE CERTIFICATION:

“**Certification**” means that College of the Sequoias has verified that a student has completed the lower division general education requirements for the California State University. Certification is important because without it students will be held to the general education requirements specific to the CSU campus to which the student transfers. Courses from other colleges and universities may be considered for certification by petition through a process called “**pass along certification**”: 1) courses taken at CSU campuses, participating private colleges and universities**, and other California Community Colleges will be certified in the subject areas (AREA A - E) approved by the institution where the courses were taken, 2) courses taken at other regionally accredited colleges and universities will be certified only if the **course is determined to be equivalent** to a course in a **California Community College Certification Pattern**. Courses deemed equivalent would be certified in the areas (AREA A - E) in which the equivalent **courses have been approved**.

**Participating private colleges and universities include: Fashion Institute of Design & Merchandising, Humphreys College, Marymount College, and San Joaquin Valley College.

AP EXAMS APPROVED TO CLEAR SPECIFIC CSU GE AREAS: UNITS IN ()

AP SCORE=3,4,5	GE AREA	AP SCORE=3,4,5	GE AREA	AP SCORE=3,4,5	GE AREA	AP SCORE=3,4,5	GE AREA
BIOLOGY (6/4)	B2+B3	GERMAN L&C (6/3)	C2	ITALIAN L&C (6/3)	C2	PHYS 2 (4/4)	B1 + B3
CALCULUS AB (3/3)	B4	GOVT: US (3/3)	D8	JAPANESE L&C (6/3)	C2	PHYS C (Mech) (4/4)	B1 + B3
CALCULUS BC (6/3)	B4	GOVT: COMPARATIVE (3/3)	D8	LANG & COMP (6/3)	A2	PHYS C (Elect) (4/4)	B1 + B3
CHEMISTRY (6/4)	B1+B3	HIST: EUROPEAN (6/3)	D6/C2	LIT & COMP(6/6)	A2+C2	PSYCHOLOGY (3/3)	D9
CHINESE L&C (6/3)	C2	HIST: U.S. (6/3)	D6/C2	LATIN (6/3)	C2	SPANISH L&C (6/3)	C2
ENVIRON SCI (4/4)	B1+B3	HIST: WORLD (6/3)	D6/C2	MICROECONOMICS (3/3)	D2	SPANISH LIT&C (6/3)	C2
FRENCH L&C (6/3)	C2	HISTORY OF ART (6/3)	C1/C2	MACROECONOMICS (3/3)	D2	STATISTICS (3/3)	B4
		HUMAN GEOG (3/3)	D5	PHYS 1 (4/4)	B1 + B3		

NOTE: The first number in the () is semester units granted by all campuses of the CSU, at a minimum, as elective credits which count toward the 60 transferable units necessary for admissions eligibility. This list includes only AP exams approved for CSU GE and is not exhaustive; unit limitations for electives include 6 units for both calculus exams, and 6 units for more than one physics exam (see counselor for additional details). **The second number in ()** is the semester units applied to the fulfillment of the CSU GE requirements; unit limitation for CSU GE: 4 units for more than one physics exam.

NOTE: AP GOVT: U.S. Exam may be used to clear CSU GE AREA D8; however, in order to clear the CSU American Institution graduation requirement for Federal, State, and Local Government students must also complete POLS 10.

NOTE: Some College-Level Examination Program (CLEP) exams and International Baccalaureate (IB) exams may be used to clear CSU GE AREA requirements (see counselor for details).

COLLEGE OF THE SEQUOIAS

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

2016-2017 ADVISING FORM FOR UC& CSU TRANSFER STUDENTS

Name: _____

SS# _____

DIRECTIONS: (1) Circle courses completed and enter units completed in "UC" column; underline courses in progress and enter units in progress in "UP" column; enter units needed in "UN" column. (2) Enter courses with old prefixes/numbers, and courses once approved and since deleted on the "SPECIAL ENTRY" column; enter the semester the courses were completed on the "SPECIAL ENTRY" column (e.g. CHEM 2A-F89). Enter units completed in the "UC" column. (3) Enter units completed at other colleges in the "OC" column and complete the PASS ALONG worksheet on reverse side. (4) Enter name of AP Exam on the "SPECIAL ENTRY" column (see reverse side for list of AP Exams approved to clear specific IGETC AREAS). All AREAS of the IGETC must be completed prior to transfer, and all courses must be completed with a "C" or better to receive IGETC certification. (LEGEND: UC=Units Completed; OC = Other College; UP =Units in Progress; UN =Units Needed)						
	SPECIAL ENTRY FORMERLY APPROVED COURSES & AP EXAMS	U C	O C	U P	U N	
AREA 1: ENGLISH COMMUNICATION. CSU-Choose one course from each Group (9 units min.) UC-Choose one course from Group 1A and one course from Group 1B (6 units min) Group 1A: English Composition: ENGL 1 Group 1B: Critical Thinking-English Composition: ENGL 2, PHIL 25 Group 1C: Oral Communication (CSU requirement only): COMM 1, 7, 8	1A:					
	1B:					
	1C:					
AREA 2: MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING. (3 units min.) MATH 21*, 70, 65, 66, 67, 80, 81, BUS 20*, SSCI 25	2:					
AREA 3: ARTS & HUMANITIES. Choose at least 3 courses, with at least one course from Group 3A and one course from Group 3B (9 units minimum). Group 3A: Arts: ART 1, 2, 3, 4, 5, ARCH 70, 71, MUS 4*, 5*,6, 7,10, 11,13, 14, DRAM 1, 6^ Group 3B: Humanities: ASL 3, 4, ENGL 4, 10, 15, 16, 18, 19, 30, 31, 44, 45, 46, ETHN 1^, 2^, 3^, 4^, HIST 4^, 5^, 17+^, 18+^, 23^, 25^, PHIL 1, 5, 12, 13, 14, SPAN 3*, 4*, 12, 23*, DRAM 6^ ^ETHN 1, 2, 3, & 4; HIST 4, 5, 17, 18, 23 & 25 can be counted in one area <u>only</u> (3B OR 4). DRAM 6 can be counted in one area <u>ONLY</u> (3A or 3B).	3A:					
	3:					
	3B:					
AREA 4: SOCIAL & BEHAVIORAL SCIENCES. Choose at least three courses from at least two disciplines (9 units minimum). AG 1, AGMT 1, AJ 45, ANTH 10, 12, CFS 80, CHLD 39, 42, ETHN 1^, 2^, 3^,4^, 5, ECON 25, 40, 50, GEOG 2, HIST 4^, 5^, 17+^, 18+^, 23^, 25^, JOUR 7, 20, POLS 5+, 6, 8, NUTR 20, PSY 1, 5, 10, 34, SOC 1, 2, 10, 23, 26, 43, COMM 9, SSCI 36, 50* ^ETHN 1, 2, 3, & 4; HIST 4, 5, 17, 18, 23 & 25 can be counted in ONE AREA <u>ONLY</u> (3B or 4).	4:					
	4:					
	4:					
AREA 5: PHYSICAL & BIOLOGICAL SCIENCES. Choose at least two courses, one from Group 5A & one from Group 5B; at least one course must include a laboratory. Labs are <u>underlined</u>. (7 units minimum). Group 5A: Physical Science: ASTR 10, CHEM <u>1*</u>, <u>2*</u>, <u>12*</u>, <u>13*</u>, <u>20*</u>, <u>21*</u>, GEOG 1, <u>1L</u>, GEOL <u>1</u>, 4, <u>4L</u>, <u>5</u>, 12, MET 1, PSCI <u>20*</u>, PHYS <u>5*</u>, <u>6*</u>, <u>7*</u>, <u>20*</u>, <u>21*</u>, <u>55*</u>, <u>56</u>, <u>57</u> Group 5B: Biological Sciences: AG 2, ANTH 11, BIOL <u>1</u>, <u>2</u>, <u>20*</u>, <u>21</u>, <u>22</u>, 25, <u>30</u>, <u>31</u>, <u>40</u>	5A:					
	5B:					
AREA 6: LANGUAGE OTHER THAN ENGLISH. (UC requirement only). Requirement may be satisfied by any of the options listed below or by completing one of the following: SPAN 2*, 22*, ASL 1, PORT 2, If satisfied by higher level course (check here): _____ (1) completion of 2 years of the same foreign language in high school with a grade of "C" or better; or (2) a score of 3 or higher on an AP exam in language other than English; or (3) an appropriate score on an SAT II subject test in a language other than English; or (4) a score of 5 or higher on an International Baccalaureate Higher Level Exam in a language other than English; or (5) satisfactory completion, with "C" grades or better, of two years of formal schooling at the sixth grade level or higher in an institution where the language of instruction is not English. If completed at high school (check here): _____ If completed by exam (check here): _____ If satisfied by school at foreign country (check here): _____	6.					
CSU GRADUATION REQUIREMENT IN U.S.HISTORY, CONSTITUTION & AMERICAN IDEAS (CSU Requirement only). Not part of IGETC; may be completed prior to transfer. Choose one course from Group A & one course from Group B.						
Group A: POLS 5+	A:					
Group B: HIST 17+, 18+	B:					

*Indicates number of transfer units may be limited by UC. Consult with a counselor for additional information.

+Courses used to meet the CSU graduation requirement may also be used for AREA 3 and/or 4 to meet IGETC requirements (effective F08).

MINIMUM ADMISSION REQUIREMENTS FOR UC TRANSFER STUDENTS:

1. Complete 60 semester units of transferable college credit (course numbered 1-99) with a GPA of at least 2.4.
2. Complete the following course pattern, earning a grade of “C” or better in each course:
 - A: two transferable courses in English composition: ENGL 1, AND ENGL 2, 4, or PHIL 25.
 - B: one course in math concepts & quantitative reasoning: Math 21, 70, 65, 66, 67, 80, 81, BUS 20, SSCI 25
 - C: four transferable courses (3 units or more) chosen from at least two of the following subject areas:
 - a) arts & humanities; b) social & behavioral sciences; c) physical & biological sciences

Completion of the IGETC will satisfy the course pattern requirement for the minimum admission requirements listed above (#2). The IGETC is most advantageous for transfers who have not yet decided on a major or a campus. Once a student has identified a major, it is important for the student to work toward fulfilling any required preparatory courses, particularly in professional or “high unit” majors that select applicants on the basis of satisfaction of lower division major requirements. Students pursuing these types of programs should note that it is more important to complete the required preparatory courses than it is to complete the IGETC.

In general, it is not advisable for transfer students preparing for engineering majors (at any campus) to use the IGETC. Students entering “high unit” majors, such as those in the sciences, can follow the IGETC at some UC campuses (see IGETC Exceptions below), but must be careful to complete any needed lower division major preparation. For example, majors in the sciences not only have specific science prerequisites, but also have substantial mathematics requirements. Students pursuing these types of programs should use the GE-Breadth requirements for the specific major and campus of their choice and complete the Minimum Admission Requirements listed above (see counselor for course selection).

IGETC CERTIFICATION:

“**Certification**” means that College of the Sequoias has verified that a student has completed the lower division general education requirements for the University of California. Certification is important because without it students will be held to the general education requirements specific to the UC campus to which the student transfers. Courses from other colleges and universities may be considered for certification through a process called “**pass along certification**”: 1) courses taken at other California Community Colleges will be certified in the subject areas (AREA 1 – 6) approved by the institution where the courses were taken, and 2) courses taken at other regionally accredited colleges and universities will be certified **only if the course is determined to be equivalent to a course on a California Community College IGETC Certification Pattern. Courses deemed equivalent would be certified in the subject areas in which the equivalent CCC courses have been approved.** The following Advanced Placement (AP) Examinations may also be included in the IGETC Certification.

AP EXAMS APPROVED TO CLEAR SPECIFIC IGETC AREAS: UNITS in ()

AP SCORE=3,4,5	GE AREA	AP SCORE=3,4,5	GE AREA	AP SCORE 3,4,5	GE AREA	AP SCORE=3,4,5	GE AREA
BIOLOGY (5.3/4)	5B & 5C	GERMAN L&C (5.3/3)	3B\6	ITALIAN L&C (5.3/3)	3B\6A	PHYS 2 (5.3/4)	5A & 5C
CALCULUS AB (2.7/3)	2	GOVT: U.S. (2.7/3)	*4H	JAPANESE L&C(5.3/3)	3B\6A	PHYS C (Mech) (2.7/3)	5A & 5C
CALCULUS BC (5.3/3)	2	GOVT:COMPARATIVE(2.7/3)	4H	LANG & COMP (5.3/3)	1A	PHYS C (Elect) (2.7/3)	5A & 5C
CHEMISTRY (5.3/4)	5A & 5C	HIST: EUROPEAN (5.3/3)	3B or 4F	LATIN (5.3/3)	3B\6A	PSYCHOLOGY (2.7/3)	4I
CHINESE L&C (5.3/3)	3B\6	HIST: U.S. (5.3/3)	3B or 4F	LIT & COMP (5.3/3)	1A or 3B	SPANISH L&C (5.3/3)	3B\6
ENVIRON SCI (2.7/3)	5A & 5C	HIST: WORLD (5.3/3)	3B or 4F	MACROECONOMICS (2.7/3)	4B	SPANISH LIT&C (5.3/3)	3B\6
FRENCH L&C (5.3/3)	3B\6	HIST OF ART (5.3/3)	3A or 3B	MICROECONOMICS (2.7/3)	4B	STATISTICS (2.7/3)	2
		HUMAN GEOG (2.7/3)	4E	PHYS 1 (5.3/4)	5A & 5C		

NOTE: The first number in the () is semester units granted by all campuses of the UC, at a minimum, as elective credits which count toward the 60 transferable units necessary for admissions eligibility. This list includes only AP exams approved for IGETC and is not exhaustive; unit limitations include 5.3 units for both English exams, 5.3 units for both calculus exams, and 5.3 units for all three physics exams (see a counselor for complete list of exams and unit limitations.).

The second number in the () is the semester units applied to the fulfillment of IGETC requirements.

***NOTE: AP GOVT: U.S. Exam** may be used to clear IGETC AREA 4; however, in order to clear the CSU American Institution graduation requirement for Federal, State, and Local Government students must also complete POLS 10.

IGETC EXCEPTIONS:

IGETC is not accepted for Engineering majors and the following: **Berkeley** - College of Environmental Design, Chemistry, Natural Resources, and the Haas School of Business; **Davis** - all bachelor of science majors; **Los Angeles** – School of Applied Science; **Riverside** – College of Natural and Agricultural Sciences; **San Diego** – Eleanor Roosevelt College and Revelle College; **Santa Cruz** – Physical and Biological Sciences.

IGETC is not recommended for the following: **Merced** – School of Natural Sciences; **Santa Barbara** - Biological Sciences, Chemistry, Computer Science, Physics, and Geology.

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(GK: 04/1/2016)

Eligibility for Transfer to UC

If a student was eligible for admission to the University of California when she graduated from high school — meaning she satisfied the subject, scholarship, and examination requirements, or were identified by the University during the senior year in high school as being eligible under the Eligibility in the Local Context (ELC) Program, she is eligible to transfer if she has a “C” (2.0) average in her transferable college coursework.

If a student met the Scholarship Requirement, but did not satisfy the 15-course Subject Requirement, she must take transferable college courses in the missing subjects, earn a “C” or better in each required course and maintain a 2.0 GPA in all transferable coursework to be eligible for transfer.

If a student was not eligible for admission to the University when she graduated from high school because of not meeting the Scholarship Requirement, she must:

- A. Complete 60 semester (90 quarter) units of transferable college credit with a grade point average of at least 2.4 (2.8 for nonresidents); NO more than 14 semester/21 quarter units may be taken (pass/not pass), and;
- B. Complete the following seven transferable college courses, earning a grade of “C” or better in each course:
 1. Two transferable college courses (3 semester or 4-5 quarter units each) in English composition, and;
 2. One transferable college course (3 semester 4-5 quarter units) in mathematical concepts and quantitative reasoning, and;
 3. Four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, the physical and biological sciences.

Students who satisfy the Intersegmental General Education Transfer Curriculum prior to transferring to UC will satisfy Requirement B above of the transfer admission requirements. For more information about the IGETC, refer to the Index of this catalog.

Clearing High School “A-F” Deficiencies with College Courses

University of California

All courses must be completed with a grade of “C” or better.

- A. History/Social Science
High School Requirement: two years
For a deficiency in U.S. History/Civics/American Government, a transferable college course of three or more semester units in U.S. History, civics or American Government. For a deficiency in world history/cultures/geography, a transferable college course of three or more semester units in world history, cultures, and geography.

- B. English
High School Requirement: four years
For each year required through the 11th grade, a grade of C or better in a course of 3 or more semester (4 or more quarter) units in English composition, literature (American or English) or foreign literature in translation. Courses used to clear the fourth year and/or the entire requirement must be transferable. Literature courses must include substantial work in composition.
- C. Mathematics
High School Requirement: three years
Grade of C or better in a transferable mathematics course that has intermediate algebra as a prerequisite satisfies entire requirement, as does a nontransferable course of 3 semester (4 quarter) units in trigonometry. Freshman applicants cannot fulfill the entire requirement with statistics. One 3-semester-unit course in elementary algebra, geometry or intermediate algebra satisfies one year of the requirement.
- D. Laboratory Science
High School Requirement: two years
For each year of the requirement, a grade of C or better in a transferable course in biology, chemistry or physics with at least 30 hours of laboratory (not “Demonstration”).
- E. Language Other than English
High School Requirement: two years
To clear entire deficiency, any transferable course or courses held by the college or university to be equivalent to two years of high school language (excluding conversation).
- F. Visual and Performing Arts
High School Requirement: one year
Any transferable 3-semester/4-quarter unit course that clearly falls within one of four Visual/Performing Arts disciplines: dance, drama/ theater, music or visual art.
- G. College Preparatory Electives
High School Requirement: one year
One transferable course beyond those listed above as clearing any of the “a-f” requirements: or a transferable course having as prerequisite the equivalent of two high school years in a second language; or transferable course equivalent to those that clear the “c”, “d”, or “e” requirement; or a transferable course of three or more semester (4 or more quarter) units in history, social science, or visual and performing arts.

General Education Requirements for UC

Each school and college at every UC campus has its own breadth/general education requirements. Beginning with Fall 1991, students may fulfill the lower division breadth/general education requirements at most UC campuses by completing one of the following two options:

1. The Intersegmental General Education Transfer Curriculum which will fulfill the lower division breadth/general education requirements for most UC and all CSU campuses.
2. The specific lower division breadth/general education requirements of the campus to which they intend to transfer.

Refer to the Index of this catalog to find the Intersegmental General Education Transfer Curriculum. Students should consult a COS Counselor to determine which option is best suited for their educational objective.

University of California Transfer Course List

College of the Sequoias courses that are acceptable by the University of California including all unit limitations are as follows:

Accounting

1, 2

Administration of Justice

11, 13, 14*, 25*, 45

* 14 and 25 combined: maximum credit allowed: one course

Agriculture

1, 2, 3, 4

Agriculture Management

1

American Sign Language

1, 2, 3, 4

Animal Science

1, 2, 22,

Anthropology

10, 11, 12

Architecture

10, 11, 13, 14, 20, 21, 30, 70, 71

Art

1, 2, 3, 4, 5, 6, 7, 8, 9, 15, 16, 23, 25, 32, 33, 43, 44, 49, 50, 61, 62, 63, 64, 66, 67

Astronomy

10

Biology

1, 2, 20+, 21+, 22+, 25, 30, 31, 40

+No credit for BIOL 20 or 22 if taken after BIOL 1

+No credit for BIOL 21 if taken after BIOL 2

Business

18, 20*, 82

*BUS 20, MATH 21 and SSCI 25 combined: maximum credit allowed – one course

Chemistry

1, 2, 12, 13, 20+, 21*

*No credit for 20 if taken after 1

+No credit for 21 if taken after 12

Child Development

39, 42

Consumer/Family Studies

80

Cinema Arts

31, 32

Communication

1, 4, 5, 7, 8, 9

Computer

5, 6, 8, 9

Computer Science

1, 2

Dance

41, 50, 51, 54, 55, 56, 58, 59, 61, 62, 63, 70, 71, 80, 81, 82, 85

Drafting

16

Drama

1, 2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 30, 40

Earth Science

1

Economics

25, 40, 50

Education

50

Engineering

1, 2, 3, 4

English

1, 2, 4, 10, 14, 15, 16, 18, 19, 30, 31, 44, 45, 46

Ethnic Studies

1, 2, 3, 4, 5

Fashion
76

Geography
1, 1L, 2,

Geology
1, 4, 4L, 5, 12

History
4, 5, 17, 18, 23, 25

Health and Wellness
1*, 3, 7*, 60*

*1, 7, and 60 combined: maximum credit allowed, one course
NOTE: HW 60 same as SMED 60

Independent Study
(See COS Counselor)

Intercollegiate Athletics
*1AD through *51AD
See PEAC () for limitation

Journalism
1, 7, 11, 20

Kinesiology
1+, 82+, 83+, 84+, 88+
+1, 82, 83, 84, 88 combined: maximum credit, 8 units

Mathematics
10**, 11**, 21*, 65, 66, 67, 70, 80, 81

*21, BUS 20 and SSCI 25 combined: maximum credit allowed, one course
**10 and 11 combined: maximum credit allowed, one course

Meteorology
1

Music
1++, 4++, 5++, 6, 7, 10, 11, 13, 14,
20AD, 25, 30, 31, 34AD, 36, 37, 38, 39, 41AD, 54AD, 60, 62,
72AD, 74AD, 91, 96, 97

+1, 4, & 5 combined: no credit for 1 if taken after 4 or 5

Nutrition
18, 20

Ornamental Horticulture
1, 2*, 3*, 7

*2 and 3 combined; maximum credit allowed, one course

Philosophy
1, 5, 12, 13, 14, 20, 25

Physical Education Activity (PEAC)
*1 through *99

*any or all of these PE Activity courses : maximum credit allowed, 4 units

Physical Science
20*

*No credit for 20 if taken after a college course in Astronomy, Chemistry, Geology or Physics.

Physics
20*, 21*, 55*, 56*, 57*

*20, 21 combined with 55, 56, and 57: maximum credit: one series

Plant Science
1, 12

Political Science
5, 6, 8, 10

Portuguese
1, 2

Psychology
1, 5, 10, 29, 34

Sociology
1, 2, 5, 10, 23, 26, 43

Social Science
25*, 36, 50

*25, BUS 20 and MATH 21 combined: maximum credit allowed, one course

Spanish
1, 2, 3, 4, 12, 22*, 23*

*22 is equivalent to 2: maximum credit allowed, one course

*23 is equivalent to 3: maximum credit allowed, one course
2 and 22 each correspond to two years of high school study

Sports Medicine
40, 60+

+60 and HW 1 & 7 combined; maximum credit allowed, one course

NOTE: SMED 60 same as HW 60

Private Independent Colleges

College of the Sequoias is accredited by the Western Association of Schools and Colleges. Therefore, COS courses numbered 1-199 will usually be accepted as transfer credit at universities and colleges throughout the country. Students who plan to transfer to a private or out-of-state college should consult the specific catalog with the assistance of a COS counselor to determine lower division requirements necessary for transfer.

Degree and Certificate Requirements

Students at College of the Sequoias who complete the appropriate requirements may earn either an Associate of Arts or an Associate of Science degree. Both degrees represent significant levels of achievement and may be used by students who plan to start their career immediately after graduating or, with proper planning and course selection, by those who plan to transfer to a four-year university.

Associate of Arts (AA) degree is granted to students majoring in the arts, humanities, social sciences, and similar areas.

Associate of Science (AS) degree is granted to students majoring in agriculture, engineering, technology, the sciences, and related programs.

Associate in Arts for Transfer (AA-T) degree is designed for students planning to transfer to a California State University campus majoring in the arts, humanities, social sciences, and similar areas (see Transfer Information and Requirements section of catalog for additional information).

Associate in Science for Transfer (AS-T) degree is designed for students planning to transfer to a California State University campus majoring in agriculture, engineering, technology, the sciences, and related programs (see Transfer Information and Requirements section of catalog for additional information).

General Education Philosophy for the Associate Degree

General education breadth requirements emphasize democratic concepts based on the value and dignity of each individual, thus helping students prepare to undertake the responsibilities of citizenship and to participate knowledgeably in the varied experiences of life.

Major requirements educate students in the area of specialization; breadth requirements help them develop the capacity for independent judgment. The general education breadth requirements are of vital importance in the personal, social, and vocational/professional life of each student.

In personal development, breadth requirements help students develop self-awareness, thus increasing understanding of personal potential and limitations.

In social relationships and in the life of society, breadth requirements help students communicate more effectively, better understand others, and develop awareness of societal relationships.

In professional development, breadth requirements help students become more effective in the workplace through more effective communication through a better understanding of the relationship between the job at hand and the larger world. General education breadth requirements:

1. Expose students to the major disciplines of accumulated knowledge;
2. Stimulate curiosity about their surroundings;
3. Help students evaluate alternatives so that personal values can be formed;
4. Develop effective communication skills;
5. Gain a sense of self worth;
6. Learn to make rational decisions based on the utilization of problem-solving techniques; and
7. Question simple solutions of complex problems; and if appropriate, seek alternatives.

COLLEGE OF THE SEQUOIAS 2016-2017 ASSOCIATE DEGREE

DEFINITION OF ASSOCIATE DEGREES:

Students at College of the Sequoias who complete the appropriate requirements may earn either an Associate of Arts or an Associate of Science degree. Both degrees represent significant levels of achievement and may be used by students who plan to start their careers immediately after graduating or, with proper planning and course selection, by those who plan to transfer to a four-year university.

Associate of Arts (AA) degree is granted to students majoring in the arts, humanities, and similar areas.

Associate of Science (AS) degree is granted to student majoring in agriculture, engineering, technology, the sciences, and related programs.

GENERAL EDUCATION REQUIREMENTS

	C*	N*	IP*
AREA A1. Written Communication: (4 units minimum; grade of "C" or better required) ENGL 1			
AREA A2. Oral Communication/ Analytic Thinking: (3 units min.; grade of "C" or better required) AJ 25, BUS 20, 112#, 119, COMM 1, 4, 5, 7, 8, 112#, COMP 5, 6, ENGL 2, JOUR 7*, MATH 10, 21, 70, 65, 154, PHIL 20, 25, SSCI 25 # BUS 112 same as COMM 112 * JOUR 7 may be used only once in AREA A2 or AREA D.			
AREA B. Natural Science: (3 units minimum; grade of "C" or better required) AG 2, 3, 4, ANTH 11, ASTR 10, BIOL 1, 20, 21, 22, 25, 30, 31, 40, CHEM 1, 20, GEOG 1, GEOL 1, 4, 12, 5, MET 1, NUTR 18, PHYS 55, 20, PLSI 1, PSCI 20			
AREA C. Humanities: (3 units minimum; grade of "C" or better required) AJ 123, ARCH 10, 20, 70, 71, ART 1, 2, 3, 4, 5, 6, 7, 8, 66, ASL 1, 2, 3, 4, BUS 185, CINA 31, 32, DRAM 1, 2, 3, 6, ENGL 4, 10, 15, 16, 18, 19, 30, 31, 44, 45, 46, ETHN 1*, 2*, 3*, 4*, HIST 4, 5, 17**, 18**, 23, 25, LING 111, MUS 1, 10, 11, 13, 14, OH 111, PHIL 1, 5, 12, 13, 14, PORT 1, 2, SPAN 1, 2, 3, 4, 12, 22, 23, WELD 104 *ETHN 1, 2, 3, 4 may be used only once in AREA C or AREA D **HIST 17 or 18 may be used only once in either AREA C or the American Institutions Subject Requirement			
AREA D. Social/ Behavioral Science: (3 units minimum; grade of "C" or better required) AG 1, AGMT 1, AJ 11, 114, 45, ANTH 10, 12, CFS 80, CHLD 39, 42, COMM 9, ECON 25, 40, 50, ETHN 1*, 2*, 3*, 4*, GEOG 2, HSRV 120, 122, JOUR 7*, 20, NUTR 20, POLS 5**, 6, 8, PSY 1, 5, 10, 34, 133, SOC 1, 2, 10, 23, 26, 43 *ETHN 1, 2, 3, 4 may be used only once in AREA D or AREA C **POLS 5 may be used only once in either AREA D or the American Institutions Subject Requirement			
*LEGEND / C = Completed; N = Needed; IP = In Progress			

Exemptions for High Unit Transfer Majors:

Students who have met the minimum admissions requirements for transferring to a UC or CSU campus in a major, such as Science or Engineering, where completion of the CSU GE or IGETC is **not** recommended, due to excessive units, will be granted an Associate degree (Transfer Studies: Math & Science, Engineering, Math, Science, etc.) with the completion of the COS Associate Degree General Education requirements instead of the CSU GE or IGETC. The PE (section 4A), and HW (section 4B) subject requirements, and the Information Competency (section 5C) requirement will be waived and the additional 3 units required per Title 5 will be met with numerous additional science and math courses required for these majors.

**COLLEGE OF THE SEQUOIAS
2016-2017 REQUIREMENTS FOR
ASSOCIATE OF ARTS & ASSOCIATE OF SCIENCE DEGREES**

1. **Units, Residency, and Scholarship Requirements:** A minimum of 60 units of college-level courses numbered 1-299, at least **12** of which must be taken in residence at College of the Sequoias, with a “C” (2.0) average. These 60 units include general education, major, and elective courses.
2. **Major Requirements:** Completion of all courses required for the desired major with grade of “C” or better in each course (for specifics see the “AA/AS Degree – Not for Transfer” section of the College of the Sequoias General Catalog).
3. **General Education Requirements:** A minimum of 16 units of general education, including at least 3 units from each of the 5 areas listed on the reverse side of this document with a grade of “C” or better. The additional 3 units required by Title 5 will be met with the HW subject requirement. Note: completion of the CSU GE or IGETC transfer general education requirements or general education requirements at any regionally accredited university will fulfill the COS general education, subject, and competency requirements.
4. **Subject Requirements – (8 units):**
 - A. **Two units of Dance, Intercollegiate Athletics, or Physical Education** activity courses with a grade of “C” or better. Exemptions will be granted to veterans with an approved DD214, students who have completed a police or fire academy, students earning a degree in Registered Nursing or Physical Therapy Assistant, and students with medical exemptions from qualified doctors.
 - B. **Three units of Health and Wellness:** Completion of HW 1 or 7 or an equivalent college course at a regionally accredited college with a grade of “C” or better. Exemptions will be granted to veterans with an approved DD214; the four units granted by the college for the approved DD214 will be used to meet the minimum units required by Title 5. Exemptions will be granted to students earning a degree in Registered Nursing or Physical Therapy Assistant; however, they must complete one of the following: PSY 1, SOC 1, or NURS 106.
 - C. **Three units of American Institutions:** Completion of HIST 17**, 18**, POLS 5**, or an equivalent course at an accredited college with a grade of “C” or better.

**HIST 17 or 18 may be used only once in either AREA C or the American Institutions Subject Requirement
**POLS 5 may be used only once in either AREA D or the American Institutions Subject Requirement
5. **Competency Requirements:** Students must establish competency in each of the following areas:
 - A. **Writing and Reading:**
ENGL 1 or an equivalent course at a regionally accredited college with a grade of “C” or better.
 - B. **Mathematics:**
 1. Math 230 or a more advanced math course at COS, or an equivalent course at a regionally accredited college with a grade of “C” or better; or
 2. Eligibility for MATH 10, 21, 70, 154, BUS 20, 119, SSCI 25 based on COS Placement Procedures. Eligibility based on Assessment and Placement Testing must be established on students’ initial placement (retesting not permitted). Students with a substandard grade in MATH 230 or a more advanced math course at COS, or an equivalent course at a regionally accredited college may not use this option, unless the eligibility was established before enrollment in the course in which the substandard grade was earned.
 - C. **Information Competency:** (1 unit if not met with Information Competency Examination)
 1. LIBR 101, 102, or 103, or an equivalent college course at a regionally accredited college with a grade of “C” or better; or
 2. Pass Information Competency Exam with a successful score of 75% or better (enroll in LIBR 490AB to take the exam). Students will be allowed two attempts (only once per semester). If the exam is not passed after two attempts, students will be required to complete one of the LIBR courses listed above.

Note: Exemptions will be granted to students earning a degree in Registered Nursing or Physical Therapy Assistant.

AA/AS Degree Requirements for Graduation:

Completion of the CSU-GE, IGETC or general education requirements at any regionally accredited university will fulfill the COS general education, subject and competency requirements.

Students who have met the minimum admissions requirements for transferring to a UC or CSU campus in a major, such as Science or Engineering, where completion of the CSU GE or IGETC is not recommended, due to excessive units, will be granted an Associate degree (Transfer Studies, Engineering, Math and Science) with the completion of the COS Associate Degree General Education requirements instead of the CSU GE or IGETC. The information competency, physical education, and health and wellness requirements will be waived and the additional 3 units required per Title 5 will be met with numerous additional science and math courses required for these majors.

Graduation Application

An Application to Graduate must be filed by each student who wishes to receive an Associate degree. Students must have a graduation checklist completed by a counselor prior to submitting their application.

The completed application must be returned to the Admissions Office prior to the deadlines published in the college calendar, which can be found in the Schedule of Classes, College Catalog, and Student Bulletin.

Beginning with the 1991-92 catalog year, courses numbered 300 and above will not be Associate Degree applicable regardless of your establishing catalog rights prior to the 1991-92 catalog year.

Multiple Degrees

1. Students can apply for multiple degrees during the degree filing period.
2. All degrees are subject to appropriate catalog rights.
3. There will be a monetary charge for each degree awarded.
4. Notations of all degrees earned and majors completed will appear on students' transcripts.
5. A receipt from the cashier for each diploma must accompany the application for a degree.

Catalog Rights

Students may graduate under the degree requirements in effect:

- A. at the time of first enrollment at College of the Sequoias*, as long as continuous enrollment is maintained; or
- B. any academic year while continuous enrollment is maintained at College of the Sequoias; or
- C. at the time continuous enrollment is reestablished and maintained at College of the Sequoias; or
- D. at the time of graduation.

*At the time of first enrollment at College of the Sequoias does not apply to students concurrently enrolled in high school. Continuous enrollment is defined as enrollment in at least one semester per calendar year or one semester per academic year excluding summer session and ends with a break of more than two consecutive semesters (continuous enrollment cannot be maintained with a break of more than two consecutive semesters excluding summer session). Any academic record symbol (A-F, CR, NC, P, NP, I, IP, W) shall constitute enrollment.

Transfer and External Exam Credit

Acceptance of Credit from Other Institutions

Students may use coursework completed at other institutions to fulfill program, general education, and/or elective unit requirements for the Associate Degree or certificate programs at College of the Sequoias.

Colleges and universities must ensure the quality of their programs by adhering to specific evaluation criteria established and evaluated by private educational associations called accrediting agencies. College of the Sequoias accepts courses from institutions accredited by the following regional agencies:

MSCHE - Middle States Commission on Higher Education

NWCCU - Northwest Commission on Colleges and Universities

NCA - North Central Association (of Colleges and Schools)

NEASC-CIHE - New England Association of Schools and Colleges – Commission on Institutions of Higher Education

SACS - Southern Association of Colleges and Schools

WASC-ACCJC - Western Association of Schools and Colleges-Accrediting Commission for Community and Junior Colleges

WASC-ACACS - Western Association of Schools and Colleges-Accrediting Commission for Senior Colleges and Universities

College of the Sequoias recognizes those institutions that are either fully accredited or are listed as a candidate for accreditation as published in the *Database of Accredited Postsecondary Institutions and Programs maintained by the U.S. Department of Education*.

The elective-unit requirement may be met with courses from regionally accredited colleges and universities without further evaluation. Program and general education requirements may be met with courses from regionally accredited colleges and universities only after being evaluated through the course equivalency or course substitution process.

Course equivalency may be determined by any of the following methods:

1. Direct articulation between COS and the sending institution.
2. Indirect articulation between COS and other California Community Colleges based on approval of courses for the California Identification Number System (C-ID).
3. Indirect articulation between COS and a sending institution determined by cross referencing additional public colleges and universities included in the California state-wide articulation repository (ASSIST.org). For example, if a course under review is not approved for C-ID and COS does not have direct articulation with the California Community College, a CSU that maintains articulation with both COS and the other California Community College could be used to establish indirect articulation.
4. A critical evaluation of the course to verify core elements of the course including topics, course objectives, lecture and/or lab hours, and pre-/corequisites are sufficiently aligned with COS courses. This review will be conducted by the counseling and/or evaluations staff. Some courses will also require review by the College's Articulation Officer, appropriate faculty content experts and the appropriate department chair.

Course substitutions may be approved by any of the following methods:

1. Courses completed at another California Community College that are approved for an associate degree general education category as outlined in Title 5 will be applied to the same associate degree general education category at COS regardless of whether COS has an equivalent course.
2. Courses completed at another California Community College or at a California State University that are approved for a CSU general education category as outlined in CSU E.O. 1065 will be applied to the parallel associate degree general education category at COS .
3. Courses completed at **private colleges and universities that are approved for a CSU general education category as outlined in CSU E.O. 1065** will be applied to the parallel associate degree general education category at COS.
4. Courses completed at another California Community College that are approved for the Intersegmental General Education Transfer Curriculum (IGETC) as outlined in the Standards, Policies & Procedures for IGETC (version 1.4 or most current) will be applied to the parallel associate degree general education category at COS .

Upper Division Units

College of the Sequoias will accept coursework completed at the upper division level at a regionally accredited college or university under the following conditions:

1. The course must be deemed comparable to a College of the Sequoias course by the appropriate Department Chair, a designee, or an articulation agreement.
2. Courses may be used to meet a program requirement, an associate degree general education requirement, or a pre-requisite.
3. Courses will be accepted for subject credit only; units will not be awarded.
4. Maximum subject credit for 12 upper division units will be allowed.
5. Courses will not be used to certify CSU GE or IGETC requirements.

Foreign Coursework

Foreign coursework must first be evaluated by an accredited and approved evaluation service, and then reviewed by the COS Evaluations Office. Some courses may also require approval by the appropriate department chair. Courses may be used to fulfill prerequisite, program, general education and elective unit requirements only if course descriptions, in English, are submitted for review along with the evaluated foreign transcript. Course descriptions for English courses will be considered only if the language of instruction was English. College of the Sequoias will not determine course transferability to other colleges and universities.

To have foreign coursework evaluated, students need to contact one of the approved evaluation agencies listed below and request a detailed equivalency report that includes — for each course — a course description in English, whether it is an upper or lower division course, its U.S. semester equivalency, and the grade the student earned:

AERC	(American Education Research Corporation) (626) 339-4404, www.aerc-eval.com
APIE	(Academic & Professional International Evaluations, Inc.) (562) 594-6498, www.apie.org
IERF	(International Education Research Foundation) (310) 258-9451, www.ierf.org
NACES	(The National Association of Credential Evaluation Services) Email: info@naces.org , http://www.naces.org/
WES	(World Education Service) www.wes.org

Military Service Credit

Four semester units of elective credit will be granted to any actively enrolled student with an approved DD214 that shows completion of basic training in the Armed Services of the United States and any discharge other than dishonorable. Students with an approved DD214 will also be exempt from two associate degree subject requirements: 1) the 2-unit Physical Education activity course requirement, and 2) the 3-unit Health and Wellness course requirement. An approved DD214 may also be used to fulfill the California State University 3-unit Area E General Education Breadth requirement.

In addition, up to eleven semester units of elective credit may be granted to actively enrolled students submitting a military transcript for lower division/baccalaureate level courses completed at schools in the Armed Services of the United States and in accordance with recommendations by the American Council on Education (ACE). The number of units awarded are those units recommended by the Council in the *Guide to the Evaluation of Educational Experience in the Armed Services*.

Please note: the Community College of the Air Force is accredited by the Southern Association of Colleges and Schools and credit will be granted accordingly.

Transfer General Education Pass Along Certification

CSU GE Certification

“**Certification**” means that College of the Sequoias has verified that a student has completed the lower division general education requirements for the California State University. Certification is important because without it students will be held to the general education requirements specific to the CSU campus to which the student transfers. Courses from other colleges and universities may be considered for certification by petition through a process called “pass along certification.” Courses taken at CSU campuses, participating private colleges and universities*, and other California Community Colleges will be certified in the subject areas (AREA A – E) approved by the institution where the courses were taken. Courses taken at other regionally accredited colleges and universities will be certified only if the course is determined to be equivalent to a course in a California Community College Certification Pattern. Courses deemed equivalent would be certified in the areas (AREA A – E) in which the equivalent courses have been approved.

*Participating private colleges and universities include: Don Bosco Technical Institute, Fashion Institute of Design and Merchandising, Humphreys College, Marymount College, and San Joaquin Valley College.

IGETC Certification

“**Certification**” means that College of the Sequoias has verified that a student has completed the lower division general education requirements for the University of California and/or the California State University. Certification is important because without it students will be held to the general education requirements specific to the UC campus to which the student transfers. Courses from other colleges and universities may be considered for certification through a process called “pass along certification.” Courses taken at other California Community Colleges will be certified in the subject areas (AREA 1 – 6) approved by the institution where the courses were taken. Courses taken at other regionally accredited colleges and universities will be certified only if the course is determined to be equivalent to a course on a California Community College IGETC Certification Pattern. Courses deemed equivalent would be certified in the subject areas in which the equivalent CCC courses have been approved.

Advanced Placement Exams (CEEB)

College of the Sequoias recognizes high achievements by students who have successfully completed one or more Advanced Placement Examinations as authorized by the College Entrance Examination Board.

Students who have successfully completed exams in the Advanced Placement Program with a score of 3, 4, or 5 may be granted credit for purposes of general education, graduation, and/or advanced placement in the College's sequence of courses.

Students enrolled at College of the Sequoias will automatically receive credit for Advanced Placement Examinations, if scores are sent to the College. The College will confirm the credit granted. If students choose not to receive credit for AP exams, they should request to have the credit removed from their transcript by making this request in writing to the Dean of Student Services. Please be aware that other institutions, particularly four-year colleges/universities, may evaluate your Advanced Placement credits differently. Check with an Academic Counselor or the institution to which you plan to transfer for an evaluation of your Advanced Placement credits. (Administrative Procedure 4236)

Refer to the following AP chart (beginning next page) for information on specific course credit awarded and general education areas cleared to meet College of the Sequoias' program requirements as well as the transfer general education areas cleared for CSUGE and/or IGETC certification.



	Course equivalency, GE, and units granted for COS PROGRAMS				AP exams with a minimum score of 3 can be used toward CSU admission and CSU GE certification, and UC admission and IGETC certification requirements.			
AP EXAM	SCORE	COS Course(s) Units () GE Area	SCORE	COS Course(s) Units () GE Area	CSU GE Certification Area/ Semester Units**	CSU Minimum Admission Semester Units**	IGETC Certification Area/ Semester Units***	UC Minimum Admission Semester Units***
Art History	3	ART 2 (3) Area C	4,5	ART 2 (3) + ART 3 (3) Area C	Area C2 or C1 3 units	6 units	Area 3A or 3B 3 units	5.3 units
Studio Art- Drawing	3	ART 8 (3) Area C	4,5	ART 8 + Electives (3) Area C	N/A	3 units	N/A	5.3 units maximum for all three exams
Studio Art- 2D Design	3	ART 6 (3) Area C	4,5	ART 6 + Electives (3) Area C	N/A	3 units	N/A	
Studio Art- 3D Design	3	ART 7 (3) Area C	4,5	ART 7 + Electives (3) Area C	N/A	3 units	N/A	
Biology	3	BIOL 20 (4) Area B	4,5	BIOL 20 (4) + Electives (2) Area B	B2 + B3 4 units	6 units	Area 5B & 5C 4 units	5.3 units
Calculus AB OR Calculus BC/ AB Sub-score	4,5	Meets MATH 66 prerequisite. If MATH 66 is completed with a "C" or better, then credit for MATH 65 will be granted and transcribed.			Area B4 3 units	3 units (only one CALC AP exam applied to degree)	Area 2 3 units	2.7 units (5.3 max credit for Calculus AP exams)
Calculus BC	3	MATH 65 (4) Area A2	4,5	MATH 65 (4)+ MATH 66 (4) Area A2	Area B4 3 units	6 units (only one CALC AP exam applied to degree)	Area 2 3 units	5.3 units (max credit for Calculus AP exams)
Chemistry	3	CHEM 1 (5) Area B	4,5	CHEM 1 (5) + CHEM 2 (5) Area B	Area B1 + B3 4 units	6 units	Area 5A & 5C 4 units	5.3 units
Chinese Language & Culture		N/A		N/A	Area C2 3 units	6 units	Area 3B & 6 3 units	5.3 units
Computer Science A	3	CSCI 1 (4)	4,5	No additional credit	N/A	3 units (only one CS AP exam applied to degree)	N/A	1.3 units

AP EXAM	S C O R E	COS Course(s) Unit(s) GE Area	S C O R E	COS Course(s) Unit(s) GE Area	CSU GE Certification Area/ Semester Units	CSU Minimum Admission Semester Units**	IGETC Certification Area/ Semester Units***	UC Minimum Admission Semester Units***
English: Language & Composition	3	ENGL 1 (4) Area A1	4,5	No additional credit	Area A2 3 units	6 units	Area 1A 3 units	5.3 units (max credit for English AP exams)
English: Literature & Composition	3	ENGL 1 (4) Area A1	4,5	ENGL 1 (4) & ENGL 4 (3) Area A1 & C	Area A2 & C2 6 units	6 units	Area 1A or 3B 3 units	5.3 units (max credit for English AP exams)
Environmental Science	3	BIOL 21 (3) Area B	4,5	No additional credit	Area B1 & B3 4 units	4 units	Area 5A & 5C 3 units	2.7 units
French Language * Culture	3	N/A		N/A	Area C2 3 units	6 units	Area 3B & 6 3 units	5.3 units
German Language & Culture		N/A		N/A	Area C2 3 units	6 units	Area 3B & 6 3 units	5.3 units
Geography (Human)	3	GEOG 3 (3) Area D	4,5	No additional credit	Area D5 3 units	3 units	Area 4E 3 units	2.7 units
Government & Politics: Comparative		N/A		N/A	Area D8 3 units	3 units	Area 4H 3 units	2.7 units
+ Government & Politics: US	3	POLS 5 (3) Area D	4,5	No additional credit	Area D8 & US-2 CSU AI requirement 3 units	3 units	Area 4H 3 units	2.7 units
History: European	3	HIST 4 (3) Area D	4,5	HIST 4 (3) & HIST 5 (3) Area D	Area C2 or D6 3 units	6 units	Area 3B or 4F 3 units	5.3 units
History: US	3	HIST 17 (3) Area D	3,4	HIST 17 (3) & HIST 18 (3) Area D	Area C2 or D6 & US-1 CSU AI requirement 3 units	6 units	Area 3B or 4F 3 units	5.3 units
History: World	3	HIST 25 (3) Area D	4,5	HIST 25 (3) & Electives (3) Area D	Area C2 or D6 3 units	6 units	Area 3B or 4F 3 units	5.3 units
Italian Language & Culture		N/A		N/A	Area C2 3 units	6 units	Area 3B & 6 3 units	5.3 units
Japanese Language & Culture		N/A		N/A	Area C2 3 units	6 units	Area 3B & 6 3 units	5.3 units
Latin		N/A		N/A	Area C2 3 units	6 units	Area 3B & 6 3 units	5.3 units
Macro Economics	3	ECON 50(3) Area D	4,5	No additional credit	Area D2 3 units	3 units	Area 4B 3 units	2.7 units
Micro Economics	3	ECON 40(3) Area D	4,5	No additional credit	Area D2 3 units	3 units	Area 4B 3 units	2.7 units

AP EXAM	SCORE	COS Course(s) Units () GE Area	SCORE	COS Course(s) Units () GE Area	CSU GE Certification Area/ Semester Units**	CSU Minimum Admission Semester Units**	IGETC Certification Area/ Semester Units***	UC Minimum Admission Semester Units***
Music Theory	3	Electives (3)	4,5	Electives (6)	NA	6 units	N/A	5.3 units
Physics 1*					Area B1+B3 4 units	4 units	Area 5A & 5 4 units	5.3 units (max credit for all Physics AP exams)
Physics 2*					Area B1 & B3 4 units	4 units	Area 5A & 5C 4 units	5.3 units (max credit for all Physics AP exams)
Physics 1 & 2	3	PHYS 20 (5) Area B	4,5	No additional credit				
*Physics C-Mechanics	3	PHYS 55 (4) Area B	4,5	No additional credit	Area B1+B3 4 units	4 units (6 units max credit for all Physics AP exams)	Area 5A & 5C 3 units	2.7 units (5.3 units max credit for Physics AP exams)
*Physics C-Electricity & Magnetism	3	PHYS 56 (4) Area B	4,5	No additional credit	Area B1 +B3 4 units	4 units (6 units max credit for all Physics AP exams)	Area 5A & 5C 3 units	2.7 units (5.3 units max credit for Physics AP exams)
Psychology	3	PSY 1 (3)	4,5	No additional credit	Area D9 3 units	3 units	Area 4 3 units	2.7 units
Spanish Language & Culture	3	SPAN 3 (4) Area C	4,5	SPAN 3 (4) & SPAN 4 (4) Area C	Area C2 3 units	6 units	Area 3B & 6 3 units	5.3 units
Spanish Literature & Culture	3	SPAN 12 (3) Area C	4,5	SPAN 12 (3) & Electives (4) Area C	Area C2 3 units	6 units	Area 3B & 6 3 units	5.3 units
Statistics	3	MATH 21 (4) Area A2	4,5	No additional credit	Area B4 3 units	3 units	Area 2 3 units	2.7 units

* If a student passes both the AP Physics B (or AP Physics 1 & 2) and AP Physics C exams, credit will be granted for AP Physics C for COS program requirements.

+ AP Government & Politics: US Exam may be used to clear CSU GE AREA D8; however, to clear the CSU American Institutions graduation requirement for Federal, State, and Local Government, students must also complete POLS 010.

*** CSU Advanced Placement Policies

All CSU campuses will accept the minimum units shown if the exam is included in full or subject area certification; individual CSU campuses may choose to accept more units than those specified towards completion of general education breadth requirements. The CSU Minimum Admissions Semester Units column reflects the number of units all CSU campuses will accept toward CSU admission.

*** UC Advanced Placement Policies

Each AP exam may be applied to one IGETC area satisfying one course requirement, with the exception of Language Other Than English (LOTE). The UC Minimum Admission Semester Units column reflects the minimum number of units all University of California campuses will accept toward UC admission.

College Level Examination Program (CLEP)

College of the Sequoias awards credit for the five General Examination sections of the College Level Examination Program: 1) College Composition, 2) College Mathematics, 3) Humanities, 4) Natural Science, and 5) Social Science and History. Six units of elective credit may be awarded for each examination that a student completes with a score of 50 or higher. Students enrolled at College of the Sequoias may petition for credit by submitting the official CLEP Test results to the COS Admissions and Records Office, Sequoia Building.

Currently, CLEP exams are not approved to clear associate degree general education requirements and the specific subject exams are not approved for general education or elective credit. This policy is currently under review. Refer to the following CLEP chart for information on general education areas cleared for CSU GE certification and minimum admission semester units granted.

CLEP Exams with a minimum score of 50 may be granted Associate Degree elective credit as indicated in the table below.

CLEP Exams with a minimum score of 50 can be used toward CSU admission and CSU GE certification as indicated in the table below.

CLEP Exam	COS GE Area/ Semester Units	COS Associate Degree Semester Elective Units	CSU GE Certification Area / Semester Units	CSU Minimum Admission Semester Units
American Government	N/A	N/A	Area D8 / 3 units	3 units
American Literature	N/A	N/A	Area C2 / 3 units	3 units
Analyzing and Interpreting Literature	N/A	N/A	Area C2 / 3 units	3 units
Biology	N/A	N/A	Area B2 / 3 units	3units
Calculus	N/A	N/A	Area B4 / 3 units	3 units
Chemistry	N/A	N/A	Area B1 / 3 units	3 units
College Algebra	N/A	N/A	Area B4 / 3 units	3 units
College Algebra-Trigonometry (no longer offered)	N/A	N/A	Area B4 / 3 units	3 units
College Mathematics	N/A	6 units	N/A	N/A
English Composition – no essay (no longer offered)	N/A	6 units	N/A	N/A
English Composition – with essay (no longer offered)	N/A	6 units	N/A	N/A
English Literature	N/A	N/A	Area C2 / 3 units	3 units
Financial Accounting	N/A	N/A	N/A	3 units
French (score of 50) +	N/A	N/A	N/A	6 units
French (score of 59) +	N/A	N/A	Area C2 / 3 units	12 units
German (score of 50) +	N/A	N/A	N/A	6 units
German (score of 59) +	N/A	N/A	Area C2 / 3 units	12 units
History, U.S. I ++	N/A	N/A	Area D6 & US-1 CSU AI requirement/3 units	3 units
History, U.S. II ++	N/A	N/A	Area D6 & US-1 CSU AI requirement/3 units	3 units
Human Growth & Development	N/A	N/A	Area E / 3 units	3 units
Humanities	N/A	6 units	Area C2 / 3 units	3 units
Information Systems and Computer Applications	N/A	N/A	N/A	3 units

Introduction to Educational Psychology	N/A	N/A	N/A	3 units
Introduction to Business Law	N/A	N/A	N/A	3 units
Introduction to Psychology	N/A	N/A	Area D9 / 3 units	3 units
Introduction to Sociology	N/A	N/A	Area D10 / 3 units	3 units
Natural Science	N/A	6 units	Area B1 or B2 / 3 units	3 units
Pre-Calculus	N/A	N/A	Area B4 / 3 units	3 units
Principles of Accounting	N/A	N/A	N/A	3 units
Principles of Macroeconomics	N/A	N/A	Area D2 / 3 units	3 units
Principles of Management	N/A	N/A	N/A	3 units
Principles of Marketing	N/A	N/A	N/A	3 units
Principles of Microeconomics	N/A	N/A	Area D2 / 3 units	3 units
Social Sciences & History	N/A	6 units	N/A	N/A
Spanish (score of 50) +	N/A	N/A	N/A	6 units
Spanish (score of 63) +	N/A	N/A	Area C2 / 3 units	12 units
Trigonometry (no longer offered)	N/A	N/A	Area B4 / 3 units	3 units
Western Civilization I	N/A	N/A	Area C2 or D6 / 3 units	3 units
Western Civilization II	N/A	N/A	Area D6 / 3 units	3 units

CSU CLEP Policies:

All CLEP exams may be incorporated into certification of CSU GE-breadth requirements. All CSU campuses will accept the minimum units shown if the examination is included in full or subject area certification; individual CSU campuses may choose to accept more units than those specified toward completion of general education breadth requirements. The CSU Minimum Admission Semester Units column reflects the minimum number of units all CSU campuses will accept toward CSU admission. The CSU has grandfathered in this policy to guide CLEP submissions for any year the CLEP exam was taken.

+ If a student passes more than one CLEP exam in the same language other than English (French, German, and Spanish), only one exam may be applied to the baccalaureate degree. For each of these tests, a passing score of 50 is considered "Level I" and earns 6 units of admissions credit; the higher scores are considered "Level II" and earn additional admissions units and clears Area C2 of CSU GE-breadth.

++ This exam only partially fulfills the CSU American Institutions graduation requirement.

UC CLEP Policies:

The University of California currently does not accept CLEP Examinations.

Vocational Certificate Program

College of the Sequoias awards vocational certificates to students who have satisfactorily completed a high level of technical training and meet or exceed the skills and knowledge required for employment in business or industry.

Certificates are not equal to an AS or AA degree and can usually be completed in a much shorter period of time. Certificates verify to employers that the recipient has achieved a high level of technical competency. Certificate units can also be applied toward an associate degree concurrently or at a later date.

Certificate Policy

The College of the Sequoias will issue certificates to those students who satisfactorily complete the requirements stated in the college catalog with a "C" or better grade in each required class.

Students can petition their division for a waiver and/or the certificate requirements with training and/or professional experience from another institution or agency.

Students must complete at least 50% of the units required for the certificate in classes offered through COS. The petition is initiated through the division chair or department faculty in which the certificate training is available. Verification of any substitution for a required class must be attached to the certificate application.

Types of Certificates

Certificates of Achievement* (18 - 60 units)

These certificates are awarded to students who have achieved the highest level of technical competency in their field and have satisfactorily completed a rigorous sequence of courses. The requirements for these certificates are based upon close articulation with business and industry.

Skill Certificates* (17.5 or fewer units)

Skill certificates also prepare students for employment but have fewer unit requirements than the Achievement certificates. They are highly specialized and are available in a wide variety of career and technical areas. These certificates are frequently used to upgrade or update an individual's skills for promotion or increased salary.

*Certificates of Achievement may have a total unit count of 12-17.5 units. These too are approved by the Chancellor's Office.

How to Apply for a Certificate

Awarding of Certificates

1. Skill Certificates (17.5 units or fewer) or Certificates of Achievement (18 units or more and approved by the Chancellor's Office) will be awarded after the posting of grades of the particular certificate's course requirements (as outlined in the college catalog) and application procedures have been completed.
2. In order for certificates to be published in the COS graduation program, certificate applications must be approved and returned to the Admissions and Records Department prior to the deadline established each year by the Admissions and Records Department.

Application Procedures

1. Students can obtain an application for a skill or achievement certificate online at www.cos.edu.
2. Students should complete the application and print a copy of their unofficial transcript by accessing Banner Web.
3. Students will then be responsible for obtaining verification and approval of the application from the division which awards the certificate.
4. After the Division Chair and Division Dean have approved the application, Division Office staff will forward the completed application to the Admissions and Records Department for processing.
5. The Admissions and Records Department staff will print the certificates and hold for pick-up by the student. If a student chooses to pay for mailing, arrangements can be made by the student with the Cashier's Office.

Determining Award

The academic program or division is responsible for determining if an award of a college certificate shall be granted. After reviewing the applicant list and related applicant materials and determining if an award has been earned, the division chair, or designee from the program or department, will check mark the applicant list next to the name of the student. This indicates the division chair acknowledges to the Dean or other administrator that an award has been earned. The Dean or other administrator will then verify and sign that the program or department has "certified" that the award can be issued for that term to the student. If a program or department deems a certificate cannot be awarded at that time, the program or department staff will contact the student and inform him/her of any deficiency.



Alphabetical Listing of all Degrees and Certificates

A

Accounting - Certificate of Achievement.....	197
Accounting - Not for Transfer (AS).....	148
Administration of Justice for Transfer (AS-T).....	94-95
Administration of Justice: Corrections - Not for Transfer (AS).....	149-150
Administration of Justice: Law Enforcement - Not for Transfer (AS).....	151-152
Adobe Illustrator – Skill Certificate.....	198
Adobe InDesign – Skill Certificate.....	199
Adobe PhotoShop – Skill Certificate.....	200
Agricultural Business Management - Not for Transfer (AS).....	153
Agricultural Business Management - Certificate of Achievement.....	201
Agriculture Plant Science.....	393
Agriculture Power Equipment Technician - Skill Certificate.....	202
Agriculture Technology - Not for Transfer (AS).....	154
Agriculture Technology - Certificate of Achievement.....	203
American Sign Language - Not for Transfer (AA).....	155
Animal Science - Not for Transfer (AS).....	156
Animal Science - Certificate of Achievement.....	204
Anthropology for Transfer (AA-T).....	96-97
Architecture - Not for Transfer (AS).....	157
Architectural Design - Certificate of Achievement.....	205
Architectural Drafting - Certificate of Achievement.....	206
Architectural History - Skill Certificate.....	207
Architectural Visual Communication - Skill Certificate.....	208
Architecture - Certificate of Achievement.....	209
Art for Transfer (AA).....	127-129
Art History for Transfer (AA-T).....	98-99
Autodesk AutoCad for Architecture – Skill Certificate.....	210
Autodesk AutoCAD for Drafting - Certificate of Achievement.....	211
Autodesk Maya - Skill Certificate.....	212
Automotive Technology - Not for Transfer (AS).....	158
Automotive Air Conditioning Technology-Skill Certificate...	213
Automotive Brake Systems - Skill Certificate.....	214
Automotive Chassis Technology - Skill Certificate.....	215
Automotive Electrical Technology - Skill Certificate.....	216
Automotive Emissions Technology - Skill Certificate.....	217
Automotive Engine Technology - Skill Certificate.....	218
Automotive Power Train Systems Technology - Skill Certificate.....	219

B

Biology - For Transfer (A-T).....	384
Biology - For Transfer (AS).....	130-131
Building Information Modeling (BIM) – Skill Certificate.....	220
Business - Certificate of Achievement.....	221
Business Administration for Transfer (AS-T).....	100-101
Business Financial Recording - Certificate of Achievement.....	222
Business - Not for Transfer (AS).....	159-160

C

Carpentry/Millwork - Skill Certificate.....	223
Certified Nurse Assistant - Skill Certificate.....	224
Chemistry for Transfer - AS.....	132-133
Chemistry for Transfer - AS-T.....	392
Child Development - Not for Transfer (AS).....	161
Child Development - Assistant - Skill Certificate.....	225
Child Development - Associate Teacher - Skill Certificate.....	226
Child Development - Teacher - Certificate of Achievement.....	227
CISCO CCNA Academy - Skill Certificate.....	228
Commercial Art - Certificate of Achievement.....	229
Commercial Music - Skill Certificate.....	230
Communication - Skill Certificate.....	231
Communication Studies for Transfer (AA-T).....	102
Computer and Network Support - Skill Certificate.....	232
Computer Applications - Certificate of Achievement.....	233
Computer Programming and Information Systems - Not for Transfer (AS).....	162
Computer Programming and Information Systems - Certificate of Achievement.....	234
Construction Inspection - Certificate of Achievement.....	235
Construction Inspection - Not for Transfer (AS).....	163
Construction Management - Skill Certificate.....	236
Construction Practices - Skill Certificate.....	237
Construction Technology - Certificate of Achievement.....	238
Construction Technology - Not for Transfer (AS).....	164
Construction Theory - Skill Certificate.....	239
Cosmetology - Certificate of Achievement.....	386

D

Dairy Science - Skill Certificate.....	240
Dance - Not for Transfer (AA).....	165-166
Dassault Systemes Solidworks - Certificate of Achievement.....	241
Drafting Technology - Not for Transfer (AS).....	167
Dramatic Arts: Acting: Acting - Not for Transfer (AA) ..	168-169
Dramatic Arts: Technical - Not for Transfer (AA).....	170

E

Early Childhood Education for Transfer (AS-T).....	103
ECT Air Cond, Heating and Refrigeration Systems – Skill Certificate.....	242
Economics for Transfer (AA-T).....	104
Elementary Teacher Education for Transfer (AA-T).....	390-391
Emergency Medical Technician B - Skill Certificate.....	243
Engineering for Transfer (AS).....	134-135
English for Transfer (AA-T).....	105-106
Environmental Control Technology (HVAC) - Not for Transfer (AS).....	171
Environmental Control Technology - Certificate of Achievement.....	244
Equine Science - Certificate of Achievement.....	245
ESL Advanced Level Certificate of Competency (Noncredit)	246
ESL Beginning Level Certificate of Competency (Noncredit)	247
ESL Intermediate Level Certificate of Competency (Noncredit).....	248

F			
Fashion Design - Not for Transfer (AS).....	172	Mechanical Drafting - Certificate of Achievement.....	268
Fashion Design - Certificate of Achievement.....	249	Music for Transfer (AA-T).....	114-115
Fashion Design & Construction - Skill Certificate.....	250	Music for Transfer (AA).....	136-137
Fashion Merchandising - Not for Transfer (AS).....	173	N	
Fashion Merchandising - Certificate of Achievement.....	251	NCCER Electrical Applications - Certificate of Achievement	269
Fashion Merchandising - Skill Certificate.....	252	NCCER Electrical Theory - Certificate of Achievement	270
Fire Technology - Skill Certificate.....	253	O	
Fire Technology - Not for Transfer (AS).....	174-175	Ornamental Horticulture - Certificate of Achievement	271
Fire Technology - Certificate of Achievement.....	254	Ornamental Horticulture - Not for Transfer (AS)	187-188
Floral Technology - Skill Certificate.....	255	Ornamental Horticulture: Retail Nursery - Skill Certificate.....	272
Food Services, Advanced Skills - Certificate of Achievement.....	256	P	
Food Services, Basic Skills - Skill Certificate.....	257	Paralegal - Not for Transfer (AS)	189-190
Food Services, Intermediate Skills - Skill Certificate	258	Paralegal - Certificate of Achievement	273
G		Pharmacy Technician - Skill Certificate	274
Geology for Transfer (AS-T)	107-108	Philosophy for Transfer (AA-T).....	382-383
Graphic Design - Certificate of Achievement.....	259	Physical Science for Transfer (AS)	138-139
Graphic Design - Not for Transfer (AS).....	176	Physical Therapist Assistant - Not for Transfer (AS)	191-192
H		Physics for Transfer (AS-T)	116
History for Transfer (AA-T).....	109	Plant Science - Skill Certificate.....	275
Human Services (Social Work)-Certificate of Achievement.	260	Political Science for Transfer (AA-T).....	117
Human Services (Social Work) - Not for Transfer (AS) ..	177-178	P.O.S.T. Certified Basic Police Academy - Certificate of Achievement.....	276/387
I		Programmable Logic Controllers - Skill Certificate	277
Industrial Maintenance Technology - Certificate of Achievement.....	261	Psychology for Transfer (AA-T).....	118-119
Industrial Maintenance Technology-Not for Transfer (AS)	179-180	R	
Interpreter (Spanish) - Certificate of Achievement	262	Registered Nursing - Not for Transfer (AS).....	193-194
J		S	
Journalism for Transfer (AA-T).....	110-111	Sociology for Transfer (AA-T)	120-121
K		Spanish for Transfer (AA-T).....	122-123
Kinesiology for Transfer (AA-T).....	388-389	Sports Medicine/Athletic Trainer for Transfer (AS).....	140-141
L		Studio Arts for Transfer (AA-T)	124-125
Landscape Design - Certificate of Achievement	263	Sustainability - Skill Certificate	278
Landscape Management - Certificate of Achievement	264	T	
Landscape Management - Not for Transfer (AS)	181	Tactile Mechanical Drafting - Skill Certificate	279
Leadership - Skill Certificate	265	Theatre Arts - For Transfer (AA-T)	385
Legal Secretary/Law Office Clerk - Certificate of Achievement.....	266	Transfer Studies with an Area of Emphasis in Business (AA).....	142
Liberal Arts with an Area of Emphasis in Arts and Humanities (AA)	182	Transfer Studies with an Area of Emphasis in Elementary Teaching Preparation (AA)	143-144
Liberal Arts with an Area of Emphasis in Communications (AA)	183	Transfer Studies with an Area of Emphasis in Math and Science (AA)	145-146
Liberal Arts with an Emphasis in Health and Physical Education (AA).....	184	V	
Liberal Arts with an Emphasis in Natural Science (AA).....	185	Veterinary Assistant - Certificate of Achievement.....	280
Liberal Arts with an Area of Emphasis in Social and Behavioral Science (AA).....	186	W	
M		Water & Wastewater Treatment - Skill Certificate.....	281
Machining & Manufacturing - Certificate of Achievement..	267	Welding - Certificate of Achievement.....	282
Mathematics for Transfer (AS-T).....	112-113	Welding - Not for Transfer (AS).....	195
		Writing Consultancy - Certificate of Achievement	283

Alphabetical Listing of All Degrees and Certificates by Division

Agriculture

Agricultural Business Management - Not for Transfer (AS).....	153
Agricultural Business Management - Certificate of Achievement.....	201
Agriculture Plant Science.....	393
Agricultural Power Equipment Technician - Skill Certificate.....	202
Agriculture Technology - Not for Transfer (AS).....	154
Agriculture Technology - Certificate of Achievement.....	203
Animal Science - Not for Transfer (AS).....	156
Animal Science - Certificate of Achievement.....	204
Dairy Science - Skill Certificate.....	240
Equine Science - Certificate of Achievement.....	245
Floral Technology - Skill Certificate.....	255
Landscape Design - Certificate of Achievement.....	263
Landscape Management - Not for Transfer (AS).....	181
Landscape Management - Certificate of Achievement.....	264
Ornamental Horticulture - Certificate of Achievement.....	271
Ornamental Horticulture - Not for Transfer (AS).....	187-188
Ornamental Horticulture: Retail Nursery - Skill Certificate.....	272
Plant Science - Skill Certificate.....	275
Veterinary Assistant - Certificate of Achievement.....	280

Business

Accounting - Not for Transfer (AS).....	148
Accounting - Certificate of Achievement.....	197
Business - Certificate of Achievement.....	221
Business Administration for Transfer (AS-T).....	100-101
Business Financial Recordkeeping- Certificate of Achievement.....	221
Business - Not for Transfer (AS).....	159-160
Computer Applications - Certificate of Achievement.....	233
Computer Programming and Information Systems- Not for Transfer (AS).....	162
Computer Programming & Information Systems - Certificate of Achievement.....	234
Legal Secretary/Law Office Clerk - Certificate of Achievement.....	266
Paralegal - Not for Transfer (AS).....	189-190
Paralegal - Certificate of Achievement.....	273

CFS

Child Development - Not for Transfer (AS).....	161
Child Development Assistant - Skill Certificate.....	225
Child Development - Associate Teacher - Skill Certificate.....	226
Child Development - Teacher - Certificate of Achievement.....	227
Early Childhood Education for Transfer (AS-T).....	103
Elementary Teacher Education for Transfer (AA-T).....	390-391
Fashion Design - Not for Transfer (AS).....	172
Fashion Design - Certificate of Achievement.....	249
Fashion Design & Construction - Skill Certificate.....	250

Fashion Merchandising - Not for Transfer (AS).....	173
Fashion Merchandising - Certificate of Achievement.....	251
Fashion Merchandising - Skill Certificate.....	252
Food Services, Advanced Skills - Certificate of Achievement.....	256
Food Services, Basic Skills - Skill Certificate.....	257
Food Services, Intermediate Skills - Skill Certificate.....	258

Fine Arts

Art for Transfer (AA).....	127-129
Art History for Transfer (AA-T).....	98-99
Commercial Art - Certificate of Achievement.....	229
Commercial Music - Skill Certificate.....	230
Communication Studies - For Transfer (AA-T).....	102
Communication - Skill Certificate.....	231
Dramatic Arts: Acting - Not for Transfer (AA).....	168-169
Dramatic Arts: Technical - Not for Transfer (AA).....	170
Music for Transfer (AA-T).....	114-115
Music for Transfer.....	136-137
Studio Arts for Transfer (AA-T).....	124-125

Industry and Technology

Adobe Illustrator - Skill Certificate.....	198
Adobe InDesign - Skill Certificate.....	199
Adobe PhotoShop - Skill Certificate.....	200
Architectural Design - Certificate of Achievement.....	205
Architectural Drafting - Certificate of Achievement.....	206
Architectural History - Skill Certificate.....	207
Architectural Visual Communication - Skill Certificate.....	208
Architecture - Certificate of Achievement.....	209
Architecture - Not for Transfer (AS).....	157
Autodesk AutoCAD for Architecture - Skill Certificate.....	210
Autodesk AutoCAD for Drafting - Certificate of Achievement.....	211
Autodesk Maya - Skill Certificate.....	212
Automotive Air Conditioning Technology-Skill Certificate.....	213
Automotive Brake Systems - Skill Certificate.....	214
Automotive Chassis Technology - Skill Certificate.....	215
Automotive Electrical Technology - Skill Certificate.....	216
Automotive Emissions Technology - Skill Certificate.....	217
Automotive Engine Technology - Skill Certificate.....	218
Automotive Power Train Systems Technology - Skill Certificate.....	219
Automotive Technology - Not for Transfer (AS).....	158
Building Information Modeling (BIM) - Skill Certificate.....	220
Carpentry/Millwork - Skill Certificate.....	223
CISCO CCNA Academy - Skill Certificate.....	228
Computer and Network Support - Skill Certificate.....	232
Construction Inspection - Certificate of Achievement.....	235
Construction Inspection - Not for Transfer (AS).....	163
Construction Management - Skill Certificate.....	236
Construction Practices - Skill Certificate.....	237
Construction Technology - Certificate of Achievement.....	238
Construction Technology - Not for Transfer (AS).....	164
Construction Theory - Skill Certificate.....	239
Dassault Systemes Solidworks - Certificate of Achievement.....	241
Drafting Technology - Not for Transfer (AS).....	167

ECT Air Cond, Heating and Refrigeration Systems - Skill Certificate.....	242
Environmental Control Technology - Certificate of Achievement.....	244
Environmental Control Technology (HVAC) - Not for Transfer (AS).....	171
Graphic Design - Certificate of Achievement.....	259
Graphic Design - Not for Transfer (AS).....	176
Industrial Maintenance Technology - Certificate of Achievement.....	261
Industrial Maintenance Technology-Not for Transfer (AS)	179-180
Mechanical Drafting - Certificate of Achievement.....	268
NCCER Electrical Applications - Certificate of Achievement	269
NCCER Electrical Theory - Certificate of Achievement	270
Programmable Logic Controllers - Skill Certificate	277
Sustainability - Skill Certificate	278
Tactile Mechanical Drafting - Skill Certificate	279
Water & Wastewater Treatment - Skill Certificate.....	280
Welding - Certificate of Achievement.....	283
Welding - Not for Transfer (AS).....	195

Language Arts and Communications

American Sign Language - Not for Transfer (AA)	155
English - For Transfer (AA-T)	105-106
ESL Advanced Level Certificate of Competency (Noncredit)	246
ESL Beginning Level Certificate of Competency (Noncredit)	247
ESL Intermediate Level Certificate of Competency (Noncredit)	248
Interpreter (Spanish) - Certificate of Achievement	262
Journalism for Transfer (AA-T)	110-111
Spanish for Transfer (AA-T).....	122-123
Writing Consultancy - Certificate of Achievement	283

Math and Engineering

Engineering for Transfer (AS).....	134-135
Mathematics for Transfer (AS-T).....	112-113

Nursing

Certified Nurse Assistant - Skill Certificate	224
Emergency Medical Technician B - Skill Certificate.....	243
Pharmacy Technician - Skill Certificate	274
Physical Therapist Assistant - Not for Transfer (AS)	191-192
Registered Nursing - Not for Transfer (AS).....	193-194

Physical Education

Dance - Not for Transfer (AA)	165-166
Kinesiology for Transfer (AA-T).....	388-389
Sports Medicine/Athletic Trainer - For Transfer (AS) ...	140-141

Social Sciences

Administration of Justice for Transfer (AS-T)	94-95
Administration of Justice: Corrections - Not for Transfer (AS).....	149-150
Administration of Justice: Law Enforcement - Not for Transfer (AS).....	151-152
Anthropology for Transfer (AS-T).....	96-97

Economics for Transfer (AS-T).....	104
History for Transfer (AA-T).....	108
Human Services (Social Work) - Not for Transfer (AS) .	177-178
Human Services (Social Work)-Certificate of Achievement.	260
Philosophy for Transfer (AA-T).....	382-383
Political Science for Transfer (AA-T).....	117
Psychology - For Transfer (AA-T).....	118-119
Sociology - For Transfer (AA-T)	120-121

Science

Biology for Transfer (AS)	130-131
Chemistry for Transfer (AS).....	132-133
Chemistry for Transfer (AS-T).....	392
Geology for Transfer (AS-T)	107-108
Physical Science - For Transfer (AS)	138-139
Physics for Transfer (AS-T)	116

Special Programs

Cosmetology - Certificate of Achievement	384
P.O.S.T. Certified Basic Police Academy - Certificate of Achievement.....	276/385
Fire Academy - Skill Certificate	253
Fire Technology - Certificate of Achievement.....	254
Fire Technology - Not for Transfer (AS).....	174-175

Student Services

Leadership - Skill Certificate	265
Liberal Arts with an Area of Emphasis in Arts and Humanities (AA).....	182
Liberal Arts with an Area of Emphasis in Communications (AA)	183
Liberal Arts with an Area of Emphasis in Health and Physical Education (AA)	184
Liberal Arts with an Area of Emphasis in Natural Science (AA).....	185
Liberal Arts with an Area of Emphasis in Social and Behavioral Science (AA)	186
Transfer Studies with an Area of Emphasis in Business (AA).....	142
Transfer Studies with an Area of Emphasis in Elementary Teaching Preparation (AA)	143-144
Transfer Studies with an Area of Emphasis in Math and Science (AA)	145-146

Summary of Degrees

AA-T and AS-T for Transfer

AA and AS for Transfer

AA and AS Not for Transfer

- AA-T** An **Associate in Arts Degree** designed for students planning to transfer to a CSU in a similar major
- Provides guaranteed admissions to the CSU system but not to a particular campus or major
 - Requires a minimum of 60 units, including 37-39 units of transfer general education courses (IGETC or CSU GE Patterns)
 - Consult a COS counselor for assistance selecting transferable elective courses
- AS-T** An **Associate in Science Degree** designed for students planning to transfer to a CSU in a similar major
- Provides guaranteed admissions to the CSU system but not to a particular campus or major
 - Requires a minimum of 60 units, including 37-39 units of transfer general education courses (IGETC or CSU GE Patterns)
 - Consult a COS counselor for assistance selecting transferable elective courses
- AA for Transfer:** An **Associate of Arts Degree** that is designed for transfer to many baccalaureate institutions
- Course requirements vary between colleges and universities. Students are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection
 - Requires a minimum of 60 units, including 37-39 units of transfer general education courses (IGETC or CSU GE Patterns)
- AS for Transfer:** An **Associate of Science Degree** that is designed for transfer to many baccalaureate institutions
- Course requirements vary between colleges and universities. Students are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection.
 - Requires a minimum of 60 units, including 37-39 units of transfer general education courses (IGETC or CSU GE Patterns)
- AA-Not for Transfer:** An **Associate of Arts Degree** that is designed to prepare students for employment
- This degree is not designed for transfer; however, the courses included in this degree may be transferable and may apply to other degrees designed for transfer.
 - Requires a minimum of 60 units, including 19 units of associate degree general education courses as well as subject and competency requirements for a total of 25 units
- AS-Not for Transfer:** An **Associate of Science Degree** that is designed to prepare students for employment
- This degree is not designed for transfer; however, the courses included in this degree may be transferable and may apply to other degrees designed for transfer.
 - Requires a minimum of 60 units, including 19 units of associate degree general education courses as well as subject and competency requirements for a total of 25 units

Summary of Certificates

Achievement Certificate: Prepares students for high level of competency for work in a business or industry

- Requires a minimum of 18 units in the vocational area and does not require general education courses

Skill Certificate: Prepares students for entry-level employment opportunities in a business or industry

- Requires 17.5 or fewer units in a vocational area and does not require general education courses
- Skill Certificate may not qualify for financial aid eligibility

Associate Degrees

AA-T/AS-T For Transfer



These degrees are designed for students planning to transfer to a CSU in a similar major.

The degrees provide guaranteed admission to the CSU system, but not to a particular campus or major.

These degrees require a minimum of 60 units, which include 37-39 units of Transfer General Education courses (IGETC or CSU GE patterns).

Students should consult a COS Counselor for assistance selecting transferable elective courses.

A grade of "C" or better is required in all required major and restricted elective courses.

See Addendum (page 381) for new AA-T/AS-T Degree approvals.

Associate in Science in Administration of Justice for Transfer (AS-T)

Division: Social Sciences

Students completing the Associate in Science in Administration of Justice for Transfer will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Administration of Justice. Students completing this degree will have an introductory foundation for the field of Administration of Justice through the study of the criminal justice system, corrections, law enforcement, court systems, ethics, and diverse populations as related to the justice system. Students will acquire critical and analytical thinking skills related to issues in the administration of justice system and demonstrate comprehension and appreciation of the connections, contributions, experiences, and potential conflicts of diverse populations as they interact with the criminal justice system. This degree is specifically intended to facilitate a seamless transfer to the CSU system, but it also provides the preparation necessary for immediate employment in city and county law enforcement, correctional officer, jail and juvenile hall detention officer, group home counselor.

PROGRAM OUTCOMES:

- Identify and describe the structure and function of the main components of the criminal justice system: law enforcement, courts, corrections, juvenile justice and victims.
- Understand and be able to act upon the social responsibility that is entrusted to them to serve and protect the public in an ethical manner.
- Demonstrate critical thinking skills acquired in the social sciences in preparation for transfer to a 4-year college or university.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Science in Administration of Justice for Transfer (AS-T) Degree is intended to meet the lower division requirements for Administration of Justice for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Upon completion of this Associate in Science in Administration of Justice for Transfer (AS-T) Degree, students will be prepared for employment in city and county law enforcement, correctional officer, jail and juvenile hall detention officer, and group home counselor. Most common career opportunities with a baccalaureate degree include: Highway Patrol, Municipal Police Departments, Probation and Parole, County Sheriff's Department, Department of Corrections, Fish and Game, county and state juvenile facilities and several federal law enforcement agencies.

	UNITS	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

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The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6-9 units may be double counted above in 1A (CSU GE) or 3-6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Science in Administration of Justice for Transfer (AS-T)

Division: Social Sciences

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
REQUIRED MAJOR COURSES:			
A. AJ 011 Intro to Criminal Justice	3	D10	
B. AJ 014 Criminal Law 1	3		
C. SSCI 025 Statistics - Social Sciences	4	B4	2A
OR			
D. MATH 021 Introduction to Statistics	4	B4	2A
Required Major Courses Units:	10		
3. RESTRICTED ELECTIVES-List A			
Select two of the following courses:			
AJ 112 Legal Aspects of Evidence	3		
AJ 118 Criminal Investigation	3		
AJ 119 Criminal Identification	3		
AJ 013 Community Relations	3		
AJ 121 Introduction to Corrections	3		
AJ 113 Juvenile Laws and Procedures	3		
Restricted Electives-List A Units:	6		
4. RESTRICTED ELECTIVES-List B			
Select one course from either List A or List B:			
SOC 001 Introduction to Sociology	3		4J
PSY 001 General Psychology	3		4I
AJ 025 Constitutional Law	3		
AJ 045 Terrorism and Freedom	3		
AJ 111 Criminal Justice Communication	3		
AJ 114 Juvenile Delinquency	3		
AJ 115 Criminal Law 2	3		
AJ 117 Correction/Counseling	3		
AJ 130 Legal Aspects of Corrections	3		
AJ 123 Criminal Justice Ethics	3	C2	
Restricted Electives-List B Units:	3		
Total Required Major Units:	19		
5. ELECTIVES			
Select additional transferable courses numbered 1 -199 to achieve 60 units:			
Electives Units:	7-11		
Total Units:	60		

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6-9 units may be double counted above in 1A (CSU GE) or 3-6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.
 **IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Anthropology for Transfer (AA-T)

Division: Social Sciences

Students completing the Associate in Arts in Anthropology for Transfer will be able to seamlessly transfer into the CSU system to pursue a baccalaureate degree in Anthropology. Students completing this degree will have an introductory foundation for the field of Anthropology through the study of cultural, biological and archaeological aspects of human (and related species) existence. Students will acquire skills and abilities in critical thinking and communication and will become more informed about the interconnectedness of people and systems (culturally and biologically). Students will also recognize common features of the human experience around the world and throughout history and be able to demonstrate respect for the rights and views of others.

PROGRAM OUTCOMES:

Apply anthropological methods and theories to research questions concerning, but not limited to, the following: subsistence, social conditions, diversity, resource management and evolution of human and non-human primates.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in Anthropology for Transfer (AA-T) degree is intended to meet the lower division requirements for Anthropology for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include advertising, administration, market research, sales management, public relations, banking, merchandising, medical, editing, journalism, utilities, management consulting, foreign service, urban planning, social services and environmental studies.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:*			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

2. REQUIRED COURSES

A.	ANTH 010 Cultural Anthropology	3	D1	4A
B.	ANTH 011 Biological Anthropology	3	B2	5B
C.	ANTH 012 Archaeology	3		4A
D.	SSCI 025 Statistics - Social Sciences	4	B4	2A
	or MATH 021 Introduction to Statistics	4	B4	2A
	Required Courses Units:	13		

3. Restricted Electives - List A

Select one of the following courses:

BIOL 030	Human Anatomy	4		
GEOL 001	Physical Geology	4	B1,B3	5A
PSY 029	Research Methods	4		
	Restricted Electives - List B Units:	4		

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The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 9-15 units may be double counted above in 1A (CSU GE) or 16-19 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Anthropology for Transfer (AA-T)

Division: Social Sciences

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
4. Restricted Electives - List B			
Select one course from either List A or List B:			
ETHN 002 American Indian Studies	3	C2	3B,4C
HIST 023 Mexican American	3	C2	3B,4F
GEOG 002 World Regional Geography	3		4E
SOC 001 Introduction to Sociology	3		4J
COMM 009 Intercultural Communications	3		4G
MUS 013 Music of the World	3	C1	3A
Restricted Electives - List C Units:	3-4		
Total Required Major Units:	20-21		
5. Electives			
Select additional transferable courses numbered 1-199 to achieve 60 units.			
Electives Units:	14-23		
Total Units:	60		

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 9-15 units may be double counted above in 1A (CSU GE) or 16-19 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Art History for Transfer (AA-T)

Division: Fine Arts

Students completing the Associate in Arts in Art History for Transfer will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Art History or a similar major. Students completing this degree will have an introductory foundation for the field of Art History through the study of courses surveying Western and non-Western art from the Paleolithic era to the present and will acquire the ability to interpret works of art from an interdisciplinary and historical perspective.

PROGRAM OUTCOMES:

- Identify works of art according to artist(s), title and time period.
- Apply proper usage of art-specific terminology as it relates to media, processes and iconography.
- Discuss the relationship of works of art to human history by exploring their political, socio-cultural, economic, religious and intellectual context.
- Read and write effectively, understand the history of the creative experience and fundamentals in studio practices.
- Enter a four-year university as an Art History major and have the expertise to select a time period of emphasis for further study.

TRANSFER & CAREER OPPORTUNITIES: This Associate of Arts in Art History for Transfer (AA-T) Degree is needed to meet the lower division requirements for Art History for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: education and gallery management.

	UNITS	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:*			
A. California State University General Education (CSU GE)	39		
B. General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		
<p>Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.</p>			
2. REQUIRED MAJOR COURSES:			
A. ART 002 Art History/Ancient-Gothic	3	C1	3A
B. ART 003 Art History/Gothic-Modern	3	C1	3A
C. ART 008 Drawing Fundamentals	3		
Required Major Courses Units:	9		
3. RESTRICTED ELECTIVES-List A			
Select one of the following courses:			
ART 004 Precol Art &Cult/Americas-Meso	3		
ART 005 Precol Art&Cult/Americas-S.Ame	3		
Restricted Electives--List A Units:	3		

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The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Art History for Transfer (AA-T)

Division: Fine Arts

(continued from previous page)

	UNITS	CSU GE AREA	IGETC AREA
4. RESTRICTED ELECTIVES-List B			
Select two courses from either List A or List B or a combination from both lists:			
ART 006 Color and Design	3		
ART 007 Advanced Color and Design	3		
ART 049 Beginning Figure Drawing	3		
ART 066 Beginning Sculpture	3		
ART 061 Beg. Handbuilding Ceramics	3		
ART 023 Macintosh Basic for Artists	3		
ART 032 Beginning 3-D Design	3		
Restricted Electives--List B Units:	6		
5. ELECTIVES:			
Select additional transferable courses numbered 1-199 to achieve 60 units:			
Electives Units:	9 - 11		
Total Units:	60		

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Science in Business Administration for Transfer (AS-T)

Division: Business

Students completing the Associate in Science in Business Administration for Transfer will be able to seamlessly transfer into the CSU system to pursue a baccalaureate degree in Business Administration. Students completing this degree will have an introductory foundation for the field of Business Administration through the study of accounting, computers, economics, law, and statistics or quantitative methods. Students will acquire specific analytical and problem-solving skills needed in the business environment. This degree is specifically intended to facilitate a seamless transfer into the CSU system, but it also provides the preparation necessary for immediate employment in the fields of entry-level analyst, office clerk/assistant, assistant bookkeeper, bank teller, data-entry clerk, and accounting clerk.

PROGRAM OUTCOMES:

- Participate in the technical legal, accounting, and analytical aspects of a business operation.
- Functionally assist upper management with decisions affecting sales, product mix, legal issues, and office computer applications.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Science in Business Administration for Transfer (AS-T) degree is intended to meet the lower division requirements for Business Administration for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Upon completion of this Associate in Science in Business Administration for Transfer (AS-T) degree, students will be prepared for employment in business and industry as an entry-level analyst, office clerk/assistant, assistant bookkeeper, bank teller, data entry-clerk, and accounting clerk. Most common career opportunities with a baccalaureate degree include: administration in public and private organizations, marketing, manufacturing, accounting, and divisions within those organizations.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
Intersegmental General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37		

NOTE: The CSU GE pattern is not an option for this major because the minimum number of units necessary to complete the program would be 61 and compliance with the 60-unit AS-T program maximum could not be achieved.

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is highly recommended for CSU-bound students utilizing IGETC.

2. REQUIRED COURSES

A.	ACCT 001	Financial Accounting	4
B.	ACCT 002	Managerial Accounting	4
C.	BUS 018	Business Law	4
D.	BUS 119	Quantitative Methods	3

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The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 9 units may be double counted above in 1 (IGETC) in the AREAs designated in the IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Science in Business Administration for Transfer (AS-T)

Division: Business

(continued from previous page)

		Units	CSU GE AREA	IGETC AREA
E.	BUS 020 Business Statistics	3		2A
	or MATH 021 Introduction to Statistics	4		2A
F.	COMP 005 Computer Concepts	4		
	or COMP 130 Intro to Personal Computers	4		
G.	ECON 040 Principles of Microeconomics	3		4B
H.	ECON 050 Principles of Macroeconomics	3		4B
	Required Courses Units:	28-29		

CSU Fresno transfer students complete COMP 005. All other transfer students should consult ASSIST.org or a counselor for optimal course selection advice.

3. Select additional course(s) to achieve 60 units. The Business Division recommends the following courses for the completion of the elective unit requirement:
BUS 082, BUS 184, BUS 185, BUS 188, HIST 017, HIST 018, POLS 005.
- | | |
|------------------|-----|
| Electives Units: | 3-4 |
| Total Units: | 60 |

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 9 units may be double counted above in 1 (IGETC) in the AREAs designated in the IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Communication Studies for Transfer (AA-T)

Division: Fine Arts

This degree prepares students for transfer to a four-year university. Students completing this degree will have an introductory foundation for the field of Communication Studies through the study of Interpersonal, Public Speaking, Argumentation and Debate, Persuasion Group and Intercultural Communication. Students will acquire an introductory platform into the behavioral and practical applications of communication studies which will include an introduction into the concepts and theories in the areas of relational dynamics, principles of oration, group dynamics and studies of diversity. Studies will include an understanding of the aforementioned through varied topics with an emphasis upon multiple communication frameworks, practical application, quantitative and qualitative investigations and the application of critical thinking.

PROGRAM OUTCOMES:

- Demonstrate effective interpersonal communication.
- Relate effective workplace communication strategies.
- Apply organizational, research, and delivery skills.
- Analyze a communicative event using appropriate theoretical frameworks.
- Analyze and synthesize basic communication theories through reconstruction oral and/or written communication.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in Communication Studies for Transfer (AA-T) Degree is intended to meet the lower division requirements for Communication Studies for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: Consulting & Marketing, Law, Ministry, Public Information Officer, Personal and Human Resources, Sales Executive, Media Specialist, Education (instructor, translator, and negotiator), Consumer Affairs, Recreations and Event Managers, Promoter, Public Service & Administration and Accounts Specialist.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		
Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.			
2. REQUIRED MAJOR COURSES:			
A. COMM 001 Public Speaking	3*	A1	1C
B. COMM 004 Interpersonal Communication	3		
C. COMM 005 Argumentation and Debate	3*	A3	
D. COMM 007 Persuasion	3		
E. COMM 008 Group Communication	3		
F. COMM 009 Intercultural Communication	3*	D	4
Required Major Units:	18*		
3. ELECTIVES:			
Select additional transferable courses numbered 1-199 to achieve 60 units:			
Electives Units:	11-12		
Total Units:	60		

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 9 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Science in Early Childhood Education for Transfer (AS-T)

Division: Consumer Family Studies

Students completing the Associate in Science in Early Childhood Education for transfer will be able to seamlessly transfer into the CSU system to pursue a baccalaureate degree in similar majors. Students completing this degree will have an introductory foundation for the field of Early Childhood Education through the study of facts, principles and theories in early childhood education and foundations of best teaching practices for educators in child development. Students will acquire skills and abilities in child development theory, licensing regulations, health, safety, and nutrition; they will achieve skills needed for employment in the early childhood workforce.

PROGRAM OUTCOMES:

- Identify the major theories and/or principles of Early Childhood Education.
- Complete lab experience needed for employment in a licensed development facility at an approved site.
- Explain the requirements for CA Title 22 Licensing Regulations regarding health, safety, nutrition and mandated reporting.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Science in Early Childhood Education for Transfer (AS-T) degree is intended to meet the lower division requirements for similar degrees for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: Educator or Administrator in early childhood programs (i.e., infant/toddler, preschool, school age); Special Education Teacher; Instructional Aide in State Preschool and K-12 school districts; Program Manager of child development programs in single and/or multiple sites; Para Educator (Title I Schools) and Family Support Services Worker.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		
Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.			
2. REQUIRED MAJOR COURSES:			
A. CHLD 039 Child Development-DS 1	3	E	4I
B. CHLD 042 Child, Family & Society-DS2	3	D9	4I
C. CHLD 126 Observation and Assessment-DS3	3		
D. CHLD 140 Principles of ECE-DS3	3		
E. CHLD 141 Practices in ECE-DS3	3		
F. CHLD 148 Child Health/Safety-DS7	3		
G. CHLD 149 Creative Curric/Children-DS3	3		
H. CHLD 158 Cultural Diversity in ECE-DS3	3		
Required Major Units:	24		
3. ELECTIVES:			
Select additional transferable courses numbered 1-199 to achieve 60 units:			
Electives Units:	3-5		
Total Units:	60		

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 3-6 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Economics for Transfer (AA-T)

Division: Social Sciences

Students completing the Associate in Arts in Economics for Transfer will be able to seamlessly transfer into the CSU system to pursue a baccalaureate degree in Economics. Students completing this degree will have an introductory foundation for the field of Economics through the study of scarcity, comparative advantage, markets, cost theory, monetary system and economic growth. Students will acquire skills and abilities in numeracy, analysis, problem solving, and both verbal and written communication.

PROGRAM OUTCOMES:

- Critically analyze situations and solve problems.
- Apply quantitative reasoning skills.
- Apply qualitative reasoning skills.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in Economics for Transfer (AA-T) degree is intended to meet the lower division requirements for Economics for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Career opportunities with a baccalaureate degree may include jobs in business, law, medicine, government, non-profits, international relations, and education.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		
Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU-bound students utilizing IGETC and is reflected in the double counting designations.			
2. Required Courses			
A. ECON 040 Principles of Microeconomics	3	D2	4B
B. ECON 050 Principles of Macroeconomics	3		4B
C. SSCI 025 Statistics - Social Sciences	4	B4	2A
or MATH 021 Introduction to Statistics	4	B4	2A
D. MATH 065 Calculus 1	4		
Required Courses Units:	14		
3. Restricted Electives			
Choose two of the following electives:			
MATH 066 Calculus 2	4		
ACCT 001 Financial Accounting	4		
ACCT 002 Managerial Accounting	4		
COMP 005 Computer Concepts	4		
Restricted Electives Units:	8		
4. Electives: Select additional transferable courses numbered 1-199 to achieve 60 units:			
Electives Units:	5-10		
Total Units:	60		

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or 9 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in English for Transfer (AA-T)

Division: Language Arts

This degree prepares students for a seamless transition to a California State University. Students completing this degree will have an introductory foundation for the field of English through the study of rhetorical, stylistic and mechanically sound writing and close reading in multiple literary genres. Students will acquire facility in written argumentation and exposition, research, critical interpretation, and listening and speaking skills to enable logical and creative problem solving.

PROGRAM OUTCOMES:

- Produce effective, meaningful writing for a variety of contexts, purposes, and audiences.
- Read literature and other texts closely and critically.
- Think critically and creatively about issues and ideas.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in English for Transfer (AA-T) Degree is intended to meet the lower division requirements for English for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: work in education including teaching, publishing and editing, journalism, humanities-based careers, pre-law, theater or the entertainment fields. Students completing this major will find their lives enriched as often motifs and themes of great literature undergird the philosophies of and provide insight into other disciplines. The facility with writing that this major demands will also hold a student in good stead no matter what field of study or career s/he ultimately pursues.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		
Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.			
2. REQUIRED MAJOR COURSES:			
A. ENGL 002 Logic and Composition	3	A3	1B
B. ENGL 004 Composition and Literature	3	C2	3B
Required Major Units:	6		
3. RESTRICTED ELECTIVES-List A			
Choose two courses (minimum of 6 units)			
ENGL 030 American Literature 1	3	C2	3B
ENGL 031 American Literature 2	3	C2	3B
ENGL 015 Survey of British Lit 1	3	C2	3B
ENGL 016 Survey of British Lit 2	3	C2	3B
ENGL 044 World Literature 1	3	C2	3B
ENGL 045 World Literature 2	3	C2	3B
Restricted Electives-List A Units:	6		

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The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 9-15 units may be double counted above in 1A (CSU GE) or 9-12 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in English for Transfer (AA-T)

Division: Language Arts

(continued from previous page)

		Units	CSU GE AREA	IGETC AREA
4.	RESTRICTED ELECTIVES-List B Choose one course (minimum of 3 units) OR any course from List A not used above			
	ENGL 014 Creative Writing	3	E	
	ENGL 010 Chicano Literature	3		
	ENGL 018 African American Literature	3		
	ENGL 046 Shakespeare	3		
	Restricted Electives-List B Units:	3		
5.	RESTRICTED ELECTIVES-List C Choose one course (minimum of 3 units) OR any course from Lists A and B not used above			
	DRAM 001 Intro to the Theatre	3	C1	3A
	JOUR 001 Writing for New Media	3.5		
	LING 111 Introduction to Language	3		
	ENGL 019 Women in Literature	3		
	Restricted Electives-List C Units:	3		
	Total Required Major Units:	18		
6.	ELECTIVES: Select additional transferable courses numbered 1-199 to achieve 60 units:			
	Electives Units:	12-18		
	Total Units:	60		

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 9-15 units may be double counted above in 1A (CSU GE) or 9-12 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Science in Geology for Transfer (AS-T)

Division: Science

Students completing the Associate in Science in Geology for Transfer will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Geology. Students completing this degree will have an introductory foundation for the field of Geology through the study of the scientific method, Earth materials, Earth processes, and Earth history. They will acquire skills, knowledge, and abilities that enable students to use a scientific approach incorporating basic chemistry and mathematics to the study of the Earth; identify common minerals, rocks, and geomorphic features of Earth; describe the materials and elucidate the processes that comprise the dynamic Earth system; describe the evidence for and occurrence of major events in Earth History.

PROGRAM OUTCOMES:

- Understand that geology involves the application of chemistry, physics, biology and mathematics to the study of geological phenomena.
- Employ the scientific method to understand and explain geologic phenomena.
- Know fundamental scientific explanations for major geological events in earth's past, present and future.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Science in Geology for Transfer (AS-T) Degree is intended to meet the lower division requirements for Geology for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: entry-level field technician/geologist in industry (mining, oil, environmental consulting) and governmental agencies (Department of Natural Resources, Geological Surveys, National Parks).

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC)**	37		
GE Units:	37-39		

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations. Although not required for this major BIOL 020 is highly recommended for the Life Science GE requirement.

2. REQUIRED MAJOR COURSES:

A. GEOL 001	Physical Geology	4	B1,B3	5A,5C
B. GEOL 004	Earth History	3		
C. GEOL 004L	Earth History Lab	1		
D. CHEM 001	General Chemistry 1	5		
E. CHEM 002	General Chemistry 2	5		
F. MATH 065	Calculus 1	4	B4	2A
G. MATH 066	Calculus 2	4		
	Required Major Courses Units:	26		

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The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Science in Geology for Transfer (AS-T)

Division: Science

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
3 ELECTIVES			
Select additional transferable courses numbered 1-199 to achieve 60 units: The Science Division recommends at least one of the following courses which include a field trip: GEOL 150, 151, 152, or 153 to meet this elective requirement.			
Electives Units:	1-4		
Total Units:	60		

NOTE #1: Although not required for this Transfer Model Curriculum, Physics is universally required for CSU Geology Programs. Students should consider taking PHYS 020 + 021 or 55 + 56 + 57 as additional preparation.

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in History for Transfer (AA-T)

Division: Social Sciences

Students completing the Associate in Arts in History for Transfer will be able to seamlessly transfer into the CSU system to pursue a baccalaureate degree in History. Students completing this degree will have an introductory foundation for the field of History through the study of American History, Western Civilization, World History, and diverse selection of electives. Students will acquire skills and abilities in the use of both primary and secondary history sources, engaging a diversity of viewpoints in history in a civil and constructive fashion, and evaluating historical sources for credibility and perspective.

PROGRAM OUTCOMES:

At the end of this program, students will have skills and abilities in the use of both primary and secondary history sources, engaging a diversity of viewpoints in history in a civil and construction fashion, and evaluating historical sources for credibility and perspective.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in History for Transfer (AA-T) degree is intended to meet the lower division requirements for History for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include law, business, research, writing, archival work, politics, and teaching.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

2. Required Courses			
A. HIST 004 Western Civilization to 1648	3	C2	3B
B. HIST 005 West Civilization Since 1648	3	C2	3B
C. HIST 017 People of the US to 1877	3	D6	4F
D. HIST 018 People of the US from 1865	3		
E. HIST 025 World History to 1500	3	D6	4F
F. HIST 023 Mexican American	3		
Required Major Courses Units:	18		

3. Electives			
Select additional transferable courses numbered 1 - 199 to achieve 60 units.			
The Social Sciences Division recommends additional courses to be selected from the following: ART 002, 003; MUS 014; ANTH 010; ECON 025, 040, 050; ENGL 010; ETHN 001, 002, 003, 004, 005; GEOG 002; POLS 006, 008.			
Electives Units:	15 - 17		
Total Units:	60		

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 12 units may be double counted above in 1A (CSU GE) or in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

Associate in Arts in Journalism for Transfer (AA-T)

Division: Language Arts

Students completing the Associate in Arts in Journalism for Transfer will be able to seamlessly transfer into the CSU system to pursue a baccalaureate degree in Journalism. Students completing this degree will have an introductory foundation for the field of Journalism through the study of mass communication; reporting, writing, and editing; multimedia journalism including podcasting and videography; and workplace skills and leadership. Students will acquire skills and abilities in a variety of communication media.

PROGRAM OUTCOMES:

- Articulate the power and effect of mass media on culture and society.
- Create quality journalism that reflects professional standards.
- Understand and apply concepts of critical thinking, effective leadership, hierarchy, and basic media ethics and law.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in Journalism for Transfer (AA-T) degree is intended to meet the lower division requirements for Journalism for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include media publishing, public relations firms, advertising firms, and non-profit agencies. It is also appropriate for those seeking jobs requiring photography or computer skills and for those interested in law, criminal justice, graphic arts and web page design. Language skills are heavily emphasized.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

2. Required Courses			
A. JOUR 001	Writing for New Media	3.5	
B. JOUR 007	Mass Communication	3	D8 4H
C. JOUR 130	Media Practicum I	4	
D. JOUR 131	Media Practicum II	4	
	Required Major Courses Units:	14.5	

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The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6-9 units may be double counted above in 1A (CSU GE) or 3-9 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Journalism for Transfer (AA-T)

Division: Language Arts

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
3. Restricted Electives			
Select 6 units from the following:			
COMM 005 Argumentation and Debate	3	A3	
ECON 040 Principles of Microeconomics	3	D2	4B
or ECON 050 Principles of Macroeconomics	3	D2	4B
ENGL 002 Logic and Composition	3	A3	1B
JOUR 011 Intro to Digital Photography	3		
MATH 021 Introduction to Statistics	4	B4	2A
or SSCI 025 Statistics - Social Sciences	4	B4	2A
PHIL 020 Introductory Logic	3	A3	
PHIL 025 Critical Thinking	3	A3	1B
POLS 005 Federal, State and Local Govt	3	D8	4H
POLS 006 Comparative Politics	3	D8	4H
Restricted Electives Units:	6-7		
4. Electives			
Select additional transferable courses numbered 1-199 to achieve 60 units.			
Electives Units:			4.5-10.5
Total Units:	60		

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6-9 units may be double counted above in 1A (CSU GE) or 3-9 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Science in Mathematics for Transfer (AS-T)

Division: Math and Engineering

Students completing the Associate in Science in Mathematics for Transfer will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Mathematics. Students completing this degree will have an introductory foundation for the field of Mathematics through the study of single and multivariate calculus, linear algebra and differential equations, and will acquire the knowledge and skill sets necessary for success in a baccalaureate-level mathematics program.

PROGRAM OUTCOMES:

- Take real situations and develop mathematical models to solve problems.
- Apply analytical techniques to solve problems.
- Create, interpret and analyze graphical representations of data and equations.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Science in Mathematics for Transfer (AS-T) Degree is intended to meet the lower division requirements for mathematics for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: technical and financial industries, academics and research, computer and statistical fields (many other career options require an advanced degree).

	UNITS	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

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The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Science in Mathematics for Transfer (AS-T)

Division: Math and Engineering

(continued from previous page)

	UNITS	CSU GE AREA	IGETC AREA
2. REQUIRED MAJOR COURSES:			
A. MATH 065 Calculus 1	4	B4	2A
B. MATH 066 Calculus 2	4		
C. MATH 067 Calculus 3	4		
Required Major Units:	12		
3. RESTRICTED ELECTIVES-List A			
Select one of the following courses:			
MATH 080 Linear Algebra	4		
MATH 081 Differential Equations	5		
Restricted Electives-List A Units:	4-5		
4. RESTRICTED ELECTIVES-List B			
Select one course from either List A or List B			
CSCI 001 Programming Concepts/Method 1	4		
MATH 021 Introduction to Statistics	4		
PHYS 055 Physics 1: Mechanics & Waves	4	B1, B3	5A, 5C
Restricted Electives-List B Units:	4		
5. ELECTIVES			
Select additional transferable courses numbered 1 -199 to achieve 60 units:			
Electives Units:	2-10		
Total Units:	60		

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Music for Transfer (AA-T)

Division: Fine Arts

Students completing the Associate in Arts in Music for Transfer will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Music. Students completing this degree will have an introductory foundation for the field of Music through the study of music theory and musicianship; performance practices of different genres of music including public recitals and concerts. Students will acquire solo and ensemble performance skills from different time periods; hear, analyze and write music and distinguish historical musical styles. The program offers three areas of emphasis: instrumental, vocal, keyboard.

PROGRAM OUTCOMES:

- Discriminate the appropriate historical differences in music styles.
- Critique musical performances.
- Produce appropriate technique on student's voice/instrument.
- Analyze examples from a musical score.
- Interpret the musical score with appropriate expression and artistry.

TRANSFER & CAREER OPPORTUNITIES: This Associate of Arts in Music for Transfer (AA-T) Degree is intended to meet the lower division requirements for Music for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: Studio Musician; Instrumental Teacher; Voice Teacher; Music Director/Conductor/Producer; Accompanist; Media Composer/Arranger; Music Score Preparer; Composer; Music Therapist; Music Journalist; Audio Technician; Recording Engineer; Audio Designer; Media Composer/Arranger.

	UNITS	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

2. REQUIRED MAJOR COURSES:

All students must declare an area of emphasis (Keyboarding, Instrumental, or Vocal) and concurrently enroll in MUS 041AD and one of the following major performance ensemble courses for four consecutive semesters: MUSIC 034AD, 074AD, 054AD.

MUS 041AD must be completed four times for a total of 4 units.

A. MUS 041AD	Applied Music Lessons	1		
B. MUS 004	Theory and Musicianship 1	4	C1	3A
C. MUS 005	Theory and Musicianship 2	4	C1	3A
D. MUS 006	Theory and Musicianship 3	4		
E. MUS 007	Theory and Musicianship 4	4		

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The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 3 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Music for Transfer (AA-T)

Division: Fine Arts

(continued from previous page)

One of the following large ensemble courses must be completed 4 times for a total of 4 units:

F. MUS 034AD	Concert Choir	1-2
	or	
G. MUS 074AD	Symphonic Band	1-2
	or	
H. MUS 054AD	Symphony Orchestra	1
	Required Major Courses Units:	24

3. Electives

Select additional transferable courses numbered 1-199 to achieve 60 units.

The Music Department strongly **recommends** MUS 020AD (Piano) to meet this additional unit requirement.

Electives Units:	3-5
Total Units:	60

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 3 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Science in Physics for Transfer (AS-T)

Division: Science

Students completing the Associate in Science in Physics for Transfer will be able to seamlessly transfer into the CSU system to pursue a baccalaureate degree in Physics. Students completing this degree will have an introductory foundation for the field of Physics through the study of mechanics, thermodynamics, electricity, magnetism, optics and modern physics. Students will acquire skills and abilities in identifying, formulating and solving physics problems; designing, conducting and analyzing experiments; and critical thinking.

PROGRAM OUTCOMES:

- Develop the ability to identify, formulate, and solve physics problems.
- Develop the ability to design and conduct experiments, as well as to analyze and interpret experimental data.
- Develop the ability to use critical thinking in problem solving.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Science in Physics for Transfer (AS-T) degree is intended to meet the lower division requirements for Physics for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include physics laboratory technician, computer scientist, scientific sales, and high school science teacher.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		
<p>Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.</p>			
2. Required Courses			
A. MATH 065 Calculus 1	4	B4	2A
B. MATH 066 Calculus 2	4		
C. MATH 067 Calculus 3	4		
D. PHYS 055 Physics 1: Mechanics & Waves	4	B1,B3	5A
E. PHYS 056 Physics 2: E&M and Heat	4		
F. PHYS 057 Physics 3: Modern Physics	5		
Required Courses Units:	25		
3. Electives			
Select additional transferable courses numbered 1-199 to achieve 60 units. The Science Division recommends the additional units be met by completing one of the following lower division major preparation courses: MATH 080, 081, CHEM 001, CSCI 001.			
Electives Units:	0-4		
Total Units:	60		

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or 7 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Political Science for Transfer (AA-T)

Division: Social Sciences

This degree is designed to prepare students for a seamless transition to a California State University. Students completing this degree will have an introductory foundation for the field of Political Science through the study of theories, groups and relationships, and a better understanding of how political and governmental institutions make and implement decisions and the effects those decisions have on individual, group, and societal behavior. Students will acquire skills to think critically, communicate ideas and become more informed citizens.

PROGRAM OUTCOMES:

- Demonstrate the ability to explain and evaluate the significant factors that influence the American and other political systems.
- Demonstrate the ability to apply the knowledge of politics by using the major analytical and theoretical framework in several subfields or political science.
- Be prepared for active citizenship and begin to develop an ongoing interest in national and global politics.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in Political Science for Transfer (AA-T) Degree is intended to meet the lower division requirements for political science for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: civil service, education, law (including paralegal studies), journalist, and lobbyist, among many others.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC)**	37		
GE Units:	37-39		
Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.			
2. REQUIRED MAJOR COURSES			
A. POLS 005 Federal, State & Local Govt	3	D8	4H
B. POLS 006 Comparative Politics	3	D8	4H
C. POLS 008 International Relations	3		
D. SSCI 025 Statistics - Social Sciences	4	B4	2A
E. ECON 040 Principles of Microeconomics	3		4B
F. ECON 050 Principles of Macroeconomics	3		
Required Major Courses Units:	19		
3. ELECTIVES			
Select additional transferable courses number 1-199 to achieve 60 units.			
Electives Units:	11-14		
Total Units:	60		

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 9 units may be double counted above in 1A (CSU GE) or 12 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Psychology for Transfer (AA-T)

Division: Social Science

Students completing this program will have an introductory foundation for the field of psychology through the study of facts, principles, and theories that pertain to the basic concepts of behavior, thoughts, and emotions from human and animal research studies. The program will approach such varied topics from a scientific perspective, using systematic investigation and critical thinking methods.

PROGRAM OUTCOMES:

- Recognize the foundation assumptions and central ideas of the psychoanalytical, behaviorist, humanistic, and sociocultural, cognitive and bio-psychological approaches to psychology.
- Identify careers in psychology.
- Articulate whether the psychological courses students have taken at COS have improved their understanding of others.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in Psychology for Transfer (AA-T) Degree is intended to meet the lower division requirements for Psychology for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: Correction Counselor Trainee, Public Affairs/Social Sciences, Personnel Analyst, Market Researcher, Mental Health Care Worker, Community Youth Programs Worker, Crisis Intervention Counselor, Community and Social Service Worker, Probation Officer and Parole Officer.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

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The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 12 units may be double counted above in 1A (CSU GE) or 13 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Psychology for Transfer (AA-T)

Division: Social Science

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
2. REQUIRED COURSES:			
A. Select one from the following:	4*		
SSCI 025 Statistics for Social Sciences (4)		B4	2
or MATH 021 Introduction to Statistics (4)		B4	2
B. PSY 001 General Psychology	3*	D or E	4
C. PSY 029 Methods for Psychology	4		
D. BIOL 020 Frontiers in Biology	4*	B2	5B
E. Select one from the following:	3*		
ANTH 010 Cultural Anthropology (3)		D	4
or CFS 080 Lifespan Development (3)		E	4
or PSY 005 Social Psychology (3)		D	4
or SOC 001 Introduction to Sociology (3)		D	4
or SOC 002 Social Problems (3)		D	4
F. Select one from the following:	3		
PSY 010 Human Sexuality (3)			
or PSY 034 Abnormal Psychology (3)			
or PSY 130 Intro to Behavior Modification (3)			
or PSY 133 Personal and Social Growth (3)			
or Any course not selected from 2E above			
Total Required Major Units:	21*		
3. ELECTIVES:			
Select additional transferable courses numbered 1-199 to achieve 60 units:			
The Social Science Division recommends additional courses from 2E or 2F above to meet this requirement.			
Electives Units:	12-15		
Total Units:	60		

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 12 units may be double counted above in 1A (CSU GE) or 13 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Sociology for Transfer (AA-T)

Division: Social Science

This degree is designed to prepare students for a seamless transition to a California State University. Students completing this degree will have an introductory foundation for the field of Sociology through the study of facts, principles, and theories that pertain to basic sociological issues. Students will acquire the ability to analyze and interpret qualitative and quantitative sociological data, communicate effectively about social issues, and identify group/cultural influences. Additionally they will acquire sociological topics from a scientific perspective, using systematic investigation and critical thinking methods.

PROGRAM OUTCOMES:

- Recognize and distinguish sociological principles in the observation of groups of people. Through learned awareness, students will demonstrate the ability to critique behavior through developed sociological observation.
- Demonstrate and articulate the fundamental concepts of sociological research, fundamental assumptions, central ideas and dominant criticisms of the sociology field.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in Sociology for Transfer (AA-T) Degree is intended to meet the lower division requirements for Sociology for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: law, public administration, social services, applied research, leadership and management in non-profit organizations.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		
<p>Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.</p>			
2. REQUIRED MAJOR COURSES:			
A. SOC 001 Introduction to Sociology	3*	D	4
B. SOC 002 Social Problems	3*		4
C. SSCI 025 Statistics for Social Science	4*	B4	2
or MATH 021 Introduction to Statistics	4*	B4	2
Required Major Courses Units:	10		
3. RESTRICTED ELECTIVES - List A			
Select two courses from the following:			
SOC 026 Marriage and Family Life	3		
SOC 010 Sociology of Gender	3		
PSY 005 Social Psychology	3		
Restricted Electives - List B Units:	6		

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The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or 12 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Sociology for Transfer (AA-T)

Division: Social Science

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
4. RESTRICTED ELECTIVES - List B			
Select one course from the following:			
ANTH 010 Cultural Anthropology	3	D1	4A
PSY 010 Human Sexuality	3	D9	4G
SOC 043 Sociology of Deviance	3		
Restricted Electives - List C Units:	3		
Total Required Major Units:	19		
5. ELECTIVES			
Selected additional transferable courses numbered 1-199 to achieve 60 units			
Electives Units:	8-16		
Total Units:	60		

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or 12 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Spanish for Transfer (AA-T)

Division: Language Arts

This degree is designed to prepare students for a seamless transition to a California State University. Students completing this degree will have an introductory foundation for the field of Spanish through the study of language, culture and literature and will acquire the abilities to engage in conversation, understand the essential points of a narrative or explanation, read and comprehend literature, write summaries and engage in correspondence.

PROGRAM OUTCOMES:

Speak, read, write and understand spoken Spanish at a near-native level of fluency.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in Spanish for Transfer (AA-T) Degree is intended to meet the lower division requirements for Spanish for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: international business, finance, health care, social services, travel, and interpreting.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

2. REQUIRED COURSES

If students place out of any required course and are not awarded units for that course, they will have to take additional units to compensate for the course/units they placed out of. Approved substitutions include courses in the Restricted Electives and Approved Substitutions below. GE designations for double counting with the following required courses assume students will not place out of any required courses. Double counting will be modified to accommodate students who place out of any course.

A.	SPAN 001	Beginning Spanish	4	C2	
B.	SPAN 002	Elementary Spanish	4	C2	6A
		or			
.	SPAN 022	Span 2 for Spanish Speakers	4	C2	6A
C.	SPAN 003	Intermediate Spanish	4		3B,6A
		or			
	SPAN 023	Span 3 for Spanish Speakers	4		3B,6A
D.	SPAN 004	Advanced Spanish	4		3B,6A
		Required Major Course Units:	16		

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The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6-9 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Spanish for Transfer (AA-T)

Division: Language Arts

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
3. RESTRICTED ELECTIVES			
Select a minimum of one course (3 units) from the following:			
SPAN 012 Hispanic Literature	3		
ENGL 010 Chicano Literature	3		
HIST 023 Mexican American	3	D6	
Restricted Electives Units:	3		
4. APPROVED SUBSTITUTIONS			
As noted above, students who place out of required courses must take additional units to compensate for the course/units placed out of. Approved substitutions include courses in Restricted Electives and the courses listed below.			
ETHN 003 Mexican-American Studies	3		4C
ANTH 010 Cultural Anthropology	3		4A
SOC 001 Introduction to Sociology	3		4J
SOC 010 Sociology of Gender	3		4D
Approved Substitutions Units:	0		
Total Required Major Units:	19		
5. ELECTIVES			
Select additional transferable courses numbered 1-199 to achieve 60 units: The Language Arts Division recommends additional courses be selected from 3 (restricted Electives) or 4 (Approved Substitutions) above.			
Electives Units:	8-10		
Total Units:	60		

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6-9 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Studio Arts for Transfer (AA-T)

Division: Fine Arts

Students completing the Associate in Arts in Studio Arts for Transfer will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Art, Studio Arts. Students completing this degree will demonstrate the understanding, expertise and skill development necessary to transfer to the CSU system and pursue a bachelor's degree in Art. The Studio Arts Program provides opportunities for students to learn about spatial concepts, color theory, media-specific terminology, technology, craftsmanship and an intellectual understanding of the creative process.

PROGRAM OUTCOMES:

- At the end of this program, students will read and write effectively and understand the history of the creative experience as it relates to the history of art.
- At the end of this program, students will create artwork using foundational techniques such as the six basic elements of design, drawing and composition, an understanding of color and artistry.
- At the end of this program, students will create original three-dimensional designs using a variety of media and applications.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in Studio Arts for Transfer (AA-T) Degree is intended to meet the lower division requirements for art for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: ceramist, commercial artist, world-wide designer including architectural, advertising, interior, automotive and industrial design, art education and gallery management.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC-CSU)**	37		
GE Units:	37-39		

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

2. REQUIRED COURSES

A. ART 002	Art History/Ancient-Gothic	3	C1	3A
B. ART 003	Art History/Gothic-Modern	3	C1	3A
C. ART 006	Color and Design	3		
D. ART 008	Drawing Fundamentals	3		
E. ART 032	Beginning 3-D Design	3		
	Required Major Course Units:	15		

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The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate in Arts in Studio Arts for Transfer (AA-T)

Division: Fine Arts

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
3. RESTRICTED ELECTIVES			
Select nine units from the following list:			
ART 009 Drawing Composition	3		
or ART 049 Beginning Figure Drawing	3		
ART 023 Macintosh Basic for Artists	3		
ART 043 Beginning Studio Painting	3		
ART 061 Beg. Handbuilding Ceramics	3		
ART 066 Beginning Sculpture	3		
ART 141 Beginning Studio Arts	3		
Restricted Electives Units:	9		
4. Electives			
Select additional transferable courses numbered 1-199 to achieve 60 units:			
Electives Units:	3-5		
Total Units:	60		

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or 6 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

**IGETC-CSU requires completion of IGETC AREA 1C

Associate Degrees

AA/AS for Transfer



These degrees are designed for transfer to many baccalaureate institutions.

Course requirements vary between colleges and universities. Students are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection.

These degrees require a minimum of 60 units, including 37-39 units of transfer general education courses (IGETC or CSU GE patterns).

Associate of Arts in Art for Transfer (AA)

Division: Fine Arts

This degree prepares students for transfer to a four-year university. Students completing this degree will have an introductory foundation for the field of Art through the study of art history and studio art and will acquire comprehensive preparation for academic transfer.

PROGRAM OUTCOMES:

- Demonstrate proficiency in studio practices based upon students' areas of emphasis.
- Create a curricula map of the Art Major for Transfer.

TRANSFER & CAREER OPPORTUNITIES: The College maintains articulation with most CSU and UC campuses and some private colleges and universities. Course requirements vary between colleges and universities and students are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: art education, gallery management, commercial art, design, ceramic design.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC)	37		
GE Units:	37-39		
Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.			
2. REQUIRED MAJOR COURSES:			
A. ART 002 Art History/Ancient-Gothic	3	C1	3A
B. ART 003 Art History/Gothic-Modern	3	C1	3A
C. ART 006 Color and Design	3		
D. ART 008 Drawing Fundamentals	3		
E. ART 023 Macintosh Basic for Artists	3		
F. ART 032 Beginning 3-D Design	3		
Required Major Units:	18		
3. AREAS OF EMPHASIS			
Students must complete one of the following areas of emphasis with a minimum of 15 units.			
Areas of Emphasis Units:	15		

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The Associate of Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Arts in Art for Transfer (AA)

Division: Fine Arts

(continued from previous page)

		Units	CSU GE AREA	IGETC AREA
EMPHASIS IN ART HISTORY:				
ART 004	Precol Art &Cult/Americas-Meso	3		
ART 005	Precol Art&Cult/Americas-S.Ame	3		
ART 007	Advanced Color and Design	3		
ART 111	Beginning Gallery Exhibition	3		
ART 112	Interm. Gallery Exhibition	3		
	Emphasis in Art History - Units:	15		
EMPHASIS IN CERAMICS:				
ART 061	Beg. Handbuilding Ceramics	3		
ART 062	Interm. Handbuilding Ceramics	3		
ART 063	Beg. Wheel Thrown Ceramics	3		
ART 064	Interm. Wheel-Thrown Ceramics	3		
ART 033	Intermediate 3-D Design	3		
	Emphasis in Ceramics - Units:	15		
EMPHASIS IN SCULPTURE:				
ART 066	Beginning Sculpture	3		
ART 067	Intermediate Sculpture	3		
ART 141	Beginning Studio Arts	3		
ART 142	Intermediate Studio Arts	3		
ART 119	Beginning Stained Glass Design	3		
ART 120	Intermediate Stained Glass	3		
ART 033	Intermediate 3-D Design	3		
	Emphasis in Sculpture - Units:	15		
EMPHASIS IN DIGITAL ARTS:				
ART 007	Advanced Color and Design	3		
ART 025	Digital Imaging for Artists	3		
ART 130	Digital Printmaking	3		
ART 033	Intermediate 3-D Design	3		
	Emphasis in Digital Arts - Units:	15		

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The Associate of Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Arts in Art for Transfer (AA)

Division: Fine Arts

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
EMPHASIS IN DRAWING AND PAINTING:			
ART 007 Advanced Color and Design	3		
ART 009 Drawing Composition	3		
ART 049 Beginning Figure Drawing	3		
ART 050 Intermediate Figure Drawing	3		
ART 212 Beginning Photorealism	3		
ART 213 Intermediate Photorealism	3		
ART 043 Beginning Studio Painting	3		
ART 044 Intermediate Studio Painting	3		
Emphasis in Drawing and Painting - Units:	15		
EMPHASIS IN PRINTMAKING:			
ART 007 Advanced Color and Design	3		
ART 009 Drawing Composition	3		
ART 015 Beginning Printmaking	3		
ART 016 Intermediate Printmaking	3		
ART 121 Beginning Screen Printing	3		
ART 122 Intermediate Screen Printing	3		
ART 176 Beginning Stone Lithography	3		
ART 177 Intermediate Stone Lithography	3		
ART 178 Beginning Plate Lithography	3		
ART 179 Intermediate Plate Lithography	3		
ART 130 Digital Printmaking	3		
Emphasis in Printmaking - Units:	15		
Total Units:	64-66		

The Associate of Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Science in Biology for Transfer (AS)

Division: Science

This degree prepares students for potential further study and in some cases for entry-level employment in the field of biological science. Students completing this degree will have a foundation in a wide variety of biological fields, including pre-medicine, pre-dentistry, pre-pharmacy, physiology, science teaching, research, marine biology, biotechnology and field ecology through the study of biochemistry, cell biology, genetics, microbiology, plant and animal systematics, physiology, ecology and evolution. Students will acquire the knowledge and skill sets necessary to succeed in upper division studies as a life sciences major.

PROGRAM OUTCOMES:

Design, implement and analyze the results of experiments utilizing the scientific method and be able to correctly answer questions on laboratory or lecture assessments about scientific method.

TRANSFER & CAREER OPPORTUNITIES: The College maintains articulation with most CSU and UC campuses and some private colleges and universities. Course requirements vary between colleges and universities and students are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: biochemist, curator, cytologist, ecologist, food scientist, geneticist, teacher, professor, sales representative, entomologist, environmental specialist, fisheries biologist, marine biologist, microbiologist, museum technician, biotechnologist, forester, pathologist, pharmacologist, zoologist, science writer, biotechnology investment analyst. Please note that many of these careers require a bachelor's degree or higher to meet minimum job requirements.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC)	37		
GE Units:	37-39		
<p>Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.</p>			
2. REQUIRED MAJOR COURSES:			
A. BIOL 001 Principles of Biology 1	5*	B2	5B
B. BIOL 002 Principles of Biology 2	5		
Required Major Units:	10		

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The Associate of Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 9 units may be double counted above in 1A (CSU GE) or 10 units in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Science in Biology for Transfer (AS)

Division: Science

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
3. RESTRICTED ELECTIVES (Select 15 units; one course minimum from each group)			
Group 1:			
MATH 021 Introduction to Statistics	4*	B4	2
MATH 070 Pre-calculus	5*	B4	2
MATH 065 Calculus 1	4*	B4	2
Group 2:			
BIOL 040 General Microbiology	4		
CHEM 001 General Chemistry 1	5*	B1	5A
CHEM 002 General Chemistry 2	5		
CHEM 012 Organic Chemistry 1	5		
CHEM 013 Organic Chemistry 2	5		
CHEM 020 Introduction to General Chemistry	4*	B1	5A
CHEM 021 Organic/Biological Chemistry	4		
PHYS 055 Physics 1: Mechanics & Waves	4*	B1	5A
PHYS 056 Physics 2: E&M and Heat	4		
PHYS 057 Physics 3: Modern Physics	5		
PHYS 020 General Physics 1	5*	B1	5A
PHYS 021 General Physics 2	5		
Restricted Elective Units:		15	
Total Major and Restricted Elective Units:		25*	
4. ELECTIVES:			
Select additional transferable courses numbered 1-199 to achieve 60 units.			
Electives Units:		5-8	
Total Units:		60	

The Associate of Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 9 units may be double counted above in 1A (CSU GE) or 10 units in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Science in Chemistry for Transfer (AS)

Division: Science

This degree prepares students for entry-level employment and/or potential further study in the field of chemistry. Students completing this degree will have a foundation for the field of chemical sciences through the study of atomic structure, thermodynamics, orbital theory, inorganic and organic chemistry, reaction mechanisms, stoichiometry, instrumentation and laboratory protocol; they will acquire the knowledge and skill sets necessary to succeed in upper division studies as a chemical sciences major.

PROGRAM OUTCOMES:

- Use laboratory equipment to collect data accurately and interpret laboratory data.
- Apply a concept students have learned to a specific application and/or problem that they have not practiced.
- Become better learners and take ownership for their learning.
- Advance lab competency.

TRANSFER & CAREER OPPORTUNITIES: The College maintains articulation with most CSU and UC campuses and some private colleges and universities. Course requirements vary between colleges and universities and students are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: chemical lab technician, water purification technician, quality control coordinator, general laboratory work. Additionally, the major prepares students for transfer in any of several majors related to the chemical sciences such as food and drug inspector, industrial hygienist, materials scientist, chemist, geochemist, pharmaceutical sales. Please note that many of these careers require a bachelor's degree or higher to meet minimum job requirements.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC)	39		
GE Units:	37-39		
<p>Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.</p>			
2. REQUIRED MAJOR COURSES:			
A. CHEM 001 General Chemistry 1	5*	B1	5A
B. CHEM 002 General Chemistry 2	5		
C. CHEM 012 Organic Chemistry 1	5		
D. CHEM 013 Organic Chemistry 2	5		
Required Major Units:	20		

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The Associate of Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 9 units may be double counted above in 1A (CSU GE) or 10 units in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Science in Chemistry for Transfer (AS)

Division: Science

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
3. RESTRICTED ELECTIVES (Select a minimum of 10 units from the following):			
BIOL 001 Principles of Biology 1	5*	B2	5B
BIOL 020 Frontiers in Biology	4*	B2	5B
MATH 065 Calculus 1	4*	B4	2
PHYS 055 Physics 1: Mechanics and Waves	4		
or PHYS 020 General Physics 1	5		
Restricted Elective Units:	10		
Total Major and Restricted Elective Units:	30*		
4. ELECTIVES:			
Select additional transferable courses numbered 1-199 to achieve 60 units:			
Electives Units:	0-3		
Total Units:	60		

The Associate of Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 9 units may be double counted above in 1A (CSU GE) or 10 units in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Science in Engineering for Transfer (AS)

Division: Math & Engineering

This degree prepares students for transfer to a four-year university. Students completing this degree will have an introductory foundation for the field of Engineering through the study of calculus, differential equations, chemistry, physics, computer programming, engineering graphics, statics, materials, and circuits. Students will acquire the ability to identify, formulate, and solve engineering problems and to design and conduct experiments, as well as to analyze and interpret data.

PROGRAM OUTCOMES:

- Develop the ability to identify, formulate, and solve engineering problems (e.g. circuits, statics, materials, graphics).
- Develop the ability to design and conduct experiments, as well as to analyze and interpret data.
- Develop the ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

TRANSFER & CAREER OPPORTUNITIES: The College maintains articulation with most CSU and UC campuses and some private colleges and universities. Course requirements vary between colleges and universities and students are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: public or private practice in civil engineering, mechanical engineering, electrical engineering and computer engineering.

1. **GENERAL EDUCATION:** Engineering requires extensive lower-division major preparation and completion of the CSUGE or IGETC is not recommended. Engineering transfer students should complete the COS GE while completing the minimum admission requirements for the CSU or UC (consult with the Engineering Professor or a COS counselor to develop an educational study plan).

GE & Transfer Admission Requirements Units: 30

Units COS GE
AREA

Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.

2. REQUIRED MAJOR COURSES:

A.	ENGR 110	Introduction to Engineering	2	
B.	ENGR 004	Electric Circuits	4	
C.	CHEM 001	General Chemistry 1	5	B
D.	MATH 065	Calculus 1	4	A2
E.	MATH 066	Calculus 2	4	
F.	MATH 067	Calculus 3	4	
G.	MATH 081	Differential Equations	5	
H.	PHYS 055	Physics 1: Mechanics & Waves	4	
	and PHYS 056	Physics 2: E&M and Heat	4	
		Required Major Units:	36	

3. Select one of the following options:

Option 1: Mechanical, Civil, Aerospace, Manufacturing

	ENGR 001	Engineering Graphics	4	
	ENGR 002	Statics	3	
	ENGR 003	Engineering Materials	4	
		Option 1: Mechanical, Civil, Aerospace, Manufacturing Units:	11	

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The Associate of Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Science in Engineering for Transfer (AS)

Division: Math & Engineering

(continued from previous page)

		Units	COS GE AREA
Option 2: Electrical			
CSCI 001	Programming Concepts/Method 1	4	
	Option 2: Electrical Units:	4	
Option 3: Computer			
CSCI 001	Programming Concepts/Method 1	4	
CSCI 002	Programming Concepts/Method 2	4	
	Option 3: Computer Units:	8	
<p>Note: CSU Fresno and other universities require completion of PHYS 057 (Modern Physics) for select Engineering majors (please consult ASSIST.org, your Engineering Professor and/or a COS Counselor).</p>			
Total Degree Units:		64-71	

The Associate of Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Arts in Music for Transfer (AA)

Division: Fine Arts

This degree prepares students for transfer to a four-year university. Students completing this degree will have an introductory foundation for the field of Music through the study of music theory and musicianship; performance practices of different genres of music, including public recitals and concerts. Students will acquire solo and ensemble performance skills from different time periods; hear, analyze and write music and distinguish historical musical styles. The program offers four areas of emphasis: instrumental, vocal, keyboard and theory/composition.

PROGRAM OUTCOMES:

- Discriminate historical differences in music styles and assess musical performances.
- Implement the concepts of musical theory and analyze examples from a musical score.
- Interpret the musical score and perform with technical accuracy, expression and artistry.

TRANSFER & CAREER OPPORTUNITIES: The College maintains articulation with most CSU and UC campuses and some private colleges and universities. Course requirements vary between colleges and universities and students are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: Studio Musician; Instrumental Teacher; Voice Teacher; Music Director/Conductor/Producer; Accompanist; Media Composer/Arranger; Music Score Preparer; Composer; Music Therapist; Music Journalist; Audio Technician; Recording Engineer; Audio Designer; Media Composer/Arranger.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC)	37		
GE Units:	37-39		
2. REQUIRED MAJOR COURSES:			
All students must declare an area of emphasis (Keyboard, Instrumental, Vocal, or Composition) and concurrently enroll in MUS 041AD and one of the following major performance ensemble courses for four consecutive semesters: MUS 034AD, 074AD, 054AD.			
A. MUS 041AD Applied Music Lessons	4		
B. MUS 004 Theory and Musicianship 1	4	C1	3A
C. MUS 005 Theory and Musicianship 2	4	C1	3A
D. MUS 006 Theory and Musicianship 3	4		
E. MUS 007 Theory and Musicianship 4	4		
One of the following large ensemble courses must be completed 4 times for a total of 4 to 8 units:			

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The Associate of Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Arts in Music for Transfer (AA)

Division: Fine Arts

(continued from previous page)

		Units	CSU GE AREA	IGETC AREA
F.	MUS 074AD Symphonic Band	8		
	or MUS 034AD Concert Choir	8		
	or MUS 054AD Symphony Orchestra	4		
	All Music majors are required to enroll in piano class until piano proficiency requirement is met.			
G.	MUS 020AD Piano	2-8		
	Required Courses Units:	26-36		
3.	Restricted Electives			
	Choose additional courses from this list to complete 60 units:			
	MUS 010 Music Appreciation	3		
	MUS 011 Music Appreciation/Jazz	3		
	MUS 013 Music of the World	3		
	MUS 014 History of Rock & Roll	3	C1	
	MUS 036 Chamber Singers Renaissance	2		
	MUS 037 Chamber Singers Classical	2		
	MUS 038 Chamber Singers Romantic	2		
	MUS 039 Chamber Singers 20th Century	2		
	MUS 072AD Jazz Orchestra	2		
	MUS 060 Brass Musical Instruments	2		
	MUS 030 Beginning Voice	2		
	MUS 062 Woodwind Instruments	2		
	MUS 180 The Music Business	2		
	Restricted Electives Units:	0-3		
	Total Units:	60-69		

The Associate of Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Science in Physical Science for Transfer (AS)

Division: Science

This degree prepares students for entry-level employment and/or potential further study in the field(s) of physical science. Students completing this degree will have a foundation for the field(s) of chemistry, mathematics, physics and geology through the study of atomic structure, organic and inorganic chemistry, electricity, magnetism, geomorphology and mathematical modeling and will acquire the knowledge and skill sets necessary to succeed in upper division studies as a physical sciences major.

PROGRAM OUTCOMES:

- Identify, formulate, and solve physics problems.
- Design and conduct experiments, as well as to analyze and interpret experimental data.
- Use critical thinking in problem-solving.

TRANSFER & CAREER OPPORTUNITIES: The College maintains articulation with most CSU and UC campuses and some private colleges and universities. Course requirements vary between colleges and universities and students are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: Entry level skills in the applied physics/sciences such as physical sciences technician, lab assistant, quality control officer. Most fields in the physical sciences require a bachelor's degree or higher to meet minimum job requirements.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)		39	
B. Intersegmental General Education Transfer Curriculum (IGETC)			37
GE Units:			37-39

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

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The Associate of Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Science in Physical Science for Transfer (AS)

Division: Science

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
REQUIRED MAJOR COURSES:			
A. CHEM 001 General Chemistry	5*	B1	5A
B. CHEM 002 General Chemistry	5		
C. Select one sequence:			
PHYS 020 General Physics 1 (5)			
and PHYS 021 General Physics 2 (5)	10		
or			
PHYS 055 Physics 1: Mechanics & Waves (4)			
and PHYS 056 Physics 2: E&M and Heat (4)			
and PHYS 057 Physics 3: Modern Physics (5)	13		
D. GEOL 001 Physical Geology	4		
E. MATH 065 Calculus 1 (4)			
or MATH 021 Introduction to Statistics (4)	4*	B4	2
Total Major Units:	28-31*		
3. ELECTIVES:			
Select additional transferable courses numbered 1-199 to achieve 60 units:	0-1		
Total Degree Units:	60-66		

The Associate of Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSU GE) or in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Science in Sports Medicine/Athletic Trainer for Transfer (AS)

Division: Physical Education

This degree prepares students for transfer to a four-year university. Students completing this degree will have an introductory foundation for the field of Sports Medicine/Athletic Trainer through the study of prevention, care and rehabilitation of athletic injuries. Students will acquire an understanding of the mechanism of injury and illness, assessment of injuries and illness, and appropriate care as required.

PROGRAM OUTCOMES:

- Explain, interpret, and relate anatomical, physiological, and biomechanical systems to sport and physical activities.
- Plan, implement, and assess appropriate injury care and management procedures.
- Evaluate and plan performance enhancement methods to improve physical function and condition.

TRANSFER & CAREER OPPORTUNITIES: The College maintains articulation with most CSU and UC campuses and some private colleges and universities. Course requirements vary between colleges and universities and students are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: athletic training, sports psychology, personal fitness trainer, coaching, sports physical therapy, sports nutrition, massage therapy, osteopathic medicine, and sports chiropractic.

1. GENERAL EDUCATION: Complete one of the following:	
A. California State University General Education (CSU GE)	39
B. Intersegmental General Education Transfer Curriculum (IGETC)	37
GE Units:	37-39

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

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The Associate of Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 12 units may be double counted above in 1A (CSU GE) or 10-13 units in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Science in Sports Medicine/Athletic Trainer for Transfer (AS)

Division: Physical Education

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
2. REQUIRED COURSES:			
A. BIOL 030	Human Anatomy	4*	B2
B. BIOL 031	Human Physiology	4	B2
C. CHEM 001	General Chemistry	5*	B1
or CHEM 020	Introduction to General Chemistry	4*	B1
D. HW 003	First Aid/CPR/AED	3	
E. NUTR 018	Nutrition	3*	E
F. CHLD 039	Child Development-DS 1	3	D9'
G. SMED 040	Introduction to Sports Injuries	3.5	
H. SMED 060/HW 060	Concepts in Health & Fitness	3	
I. SMED 151	Lower Extremities Assessment	2	
J. SMED 153	Upper Extremities Assessment	2	
	Required Major Units:	31.5-32.5	
3. RESTRICTED ELECTIVES (Select a minimum of 4 units from the following):			
HW 001	Personal & Community Health	3	
PSY 001	General Psychology	3	4I
SMED 152	Lower Extremities Rehab.	2	
SMED 154	Upper Extremities Rehab.	2	
SMED 181	Athletic Training Clinical 1	2	
SMED 182	Athletic Training Clinical 2	2	
SMED 183	Athletic Training Clinical 3	2	
SMED 184	Athletic Training Clinical 4	2	
WEXP 193 Y	Sports Med Wrk Exp-1st Sem	1-4	
WEXP 194 Y	Sports Med Wrk Exp-2nd Sem	1-4	
WEXP 195 Y	Sports Med Wrk Exp-3rd Sem	1-4	
WEXP 196 Y	Sports Med Wrk Exp-4th Sem	1-4	
	Restricted Elective Unites:	4	
	Total Major and Restricted Elective Units	35.5-36.5	
4. ELECTIVES:			
	Select additional transferable courses numbered 1-199 to achieve 60 units.		
	Electives Units:	0-0.5	
	Total Units:	60-63.5	

The Associate of Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 12 units may be double counted above in 1A (CSU GE) or 10-13 units in 1B (IGETC) in the AREAs designated in the CSU GE and IGETC columns.

Associate of Arts in Transfer Studies with an Area of Emphasis in Business for Transfer (AA)

Division: Student Services

This degree prepares students for transfer to a four-year university. Students completing this degree will have an introductory foundation in the field of business through the study of facts, principles, and theories that pertain to business related disciplines such as accounting, management, business law, computer information systems, economics, statistics, and mathematics. With proper course selection students will acquire the discipline specific lower division skills and knowledge necessary for success in their chosen baccalaureate major.

PROGRAM OUTCOMES:

- Demonstrate competency in the use of word processing and spreadsheet programs.
- Explain the importance of small business to the local and regional economies.
- Demonstrate interpersonal, verbal communication and written skills at the university level.

TRANSFER & CAREER OPPORTUNITIES: The College maintains articulation with most CSU and UC campuses and some private colleges and universities. Course requirements vary between colleges and universities and students are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. This degree prepares students for baccalaureate majors including, but not limited to: Business Administration, Community and Regional Development, Construction Management, Agricultural Business, Public Administration, and Health Administration.

1. GENERAL EDUCATION: Complete one of the following:
 - A California State University General Education (CSU GE) 39 units
 - B Intersegmental General Education Transfer Curriculum (IGETC) 37 units

Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE certification and is recommended for CSU bound students utilizing IGETC.

2. Complete a minimum of 18 units with a "C" grade or better from the following courses. Courses used to fulfill the general education requirements listed above may be counted as part of this 18 unit minimum.

- A. A minimum of 12 units from the following business courses:

ACCT 001, 002
AGMT 01, 104, 108
BUS 018, 082, 112, 185
COMM #112
COMP 005, 130, 140
CSCI 001, 002
ECON 040, 050

BUS 112 same as COMM 112

- B. A minimum of 3 units from the following mathematics courses:

BUS 020, 119
MATH 021, 070, 065, 066, 154

3. Select additional transferable courses numbered 1-199 to achieve 60 units.

The Associate of Arts in Transfer Studies requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

Associate of Arts in Transfer Studies with an Area of Emphasis in Elementary Teaching Preparation for Transfer (AA)

Division: Student Services

This degree prepares students for transfer to a four-year university. Students completing this degree will have an introductory foundation in liberal arts through the study of facts, principles, and theories in the arts and humanities, social and behavioral sciences, biological and physical sciences, statistics, mathematics, English composition and literature, and communication studies. Students will develop intellect, imagination, sensibility and sensitivity, and be motivated to refine their affective as well as cognitive and physical faculties.

PROGRAM OUTCOMES:

- Plan, implement and assess various teaching methods.
- Relate the impact of cognitive, social and emotional development in children to effective instruction.
- Demonstrate professional interpersonal, verbal communication and written skills.

TRANSFER & CAREER OPPORTUNITIES: The College maintains articulation with most CSU and UC campuses and some private colleges and universities. Course requirements vary between colleges and universities and students are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. This degree prepares students for baccalaureate majors including, but not limited to: Liberal Studies, Interdisciplinary Studies, and Teacher Preparation. Most students pursue this credential with the goal of becoming an elementary school or special education teacher.

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|---|----------|
| 1. GENERAL EDUCATION: Complete one of the following: | |
| A. California State University General Education (CSU GE) | 39 units |
| B. Intersegmental General Education Transfer Curriculum (IGETC) | 37 units |

Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE certification and is recommended for CSU bound students utilizing IGETC.

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The Associate of Arts in Transfer Studies requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

Associate of Arts in Transfer Studies with an Area of Emphasis in Elementary Teaching Preparation for Transfer (AA)

Division: Student Services

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2. Complete a minimum of 18 units with a "C" grade or better from the following courses. Courses used to fulfill the general education requirements listed above may be counted as part of this 18 unit minimum.

AJ 025;
ANTH 010;
ART 001, 002, 003, 006, 007, 008, 015, 023, 043, 061, 066
BIOL 020, 022;
BUS #112
CFS 080
CHEM 020
CHLD 039
COMM 001,004, 005, 007, 008, #112
COMP 005,130
DRAM 001, 002
EDUC 050, 120
ENGL 001, 002, 004, 010, 014 015, 016, 018, 030, 031, 044, 045
ESCI 001
ETHN 001,002, 003, 004
GEOG 001, 001L, 002
GEOL 001
HIST 017, 018, 023, 025
HW 001
LING 111
MATH 010, 011, 021, 070
MUS 001, 010, 013
NSCI 131
PHIL 001, 005, 012, 020, 025
POLS 005
PSCI 020
SOC 001

#BUS 112 is same as COMM 112

3. Select additional transferable courses numbered 1-199 to achieve 60 units.

The Associate of Arts in Transfer Studies requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

Associate of Arts in Transfer Studies with an Area of Emphasis in Math and Science for Transfer (AA)

Division: Student Services

This degree prepares students for transfer to a four-year university. Students completing this degree will have an introductory foundation in mathematics and science. Students will gain an understanding of basic mathematical concepts, quantitative reasoning and their application, experimental methodology, hypotheses testing, and the power of systematic questioning. Students will also develop a comprehension of the basic concepts of physical and biological sciences, and a sophisticated understanding of science as a human endeavor - including the limitations as well as the power of scientific inquiry.

PROGRAM OUTCOMES:

- Apply the principles of mathematics to the process of scientific investigation.
- Explain and apply quantitative reasoning.
- Demonstrate an understanding of science and mathematical concepts relevant to inquiry at the university level.

TRANSFER & CAREER OPPORTUNITIES: The College maintains articulation with most CSU and UC campuses and some private colleges and universities. Course requirements vary between colleges and universities and students are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. This degree prepares students for baccalaureate majors including, but not limited to: Atmospheric Science, Biotechnology, Computer Science, Engineering, Enology, Food and Nutritional Sciences, Genetics, Health Science, Hydrology, Kinesiology, Natural Science, Pre-Nursing (B.S.N.), Physics, and many pre-professional majors: Pre-Med, Pre-Dental, Pre-Pharmacy, Pre-Optometry, Pre-Veterinary Med, and Pre-Chiropractic.

- | | |
|--|----------|
| 1. GENERAL EDUCATION: Complete one of the following: | |
| A. California State University General Education (CSU GE) | 39 units |
| B. Intersegmental General Education Transfer Curriculum (IGETC) | 37 units |
| C. College of the Sequoias' Associate Degree General Education (COS GE)* | 25 units |

*EXEMPTION FOR HIGH UNIT TRANSFER MAJORS: Students who have met the minimum admissions requirements for transferring to a UC or CSU campus in a major such as Science or Engineering, where completion of the CSU GE or IGETC is not recommended due to excessive units, will be granted this Associate degree with the completion of the COS Associate Degree General Education requirements, instead of the CSU GE or IGETC.

Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE certification and is recommended for CSU bound students utilizing IGETC.

2. AREA of EMPHASIS: Complete a minimum of 18 units with a "C" grade or better, including at least one mathematics course and at least one science course. Courses used to fulfill the general education requirements listed above may be counted as part of this 18 unit minimum.

- A. Mathematics:
MATH 010, 011, 021, 070, 065, 066, 067, 080, 081, 154
BUS 020, 119
SSCI 025

(continued on next page)

The Associate of Arts in Transfer Studies requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

Associate of Arts in Transfer Studies with an Area of Emphasis in Math and Science for Transfer (AA)

Division: Student Services

(continued from previous page)

- B. Science:
- AG 002, 004
 - ANTH 011
 - ASTR 010
 - BIOL 001, 002, 020, 021, 022, 025, 030, 031, 040
 - CHEM 001, 002, 020, 021
 - GEOG 001, 001L
 - GEOL 001, 004, 004L, 012
 - MET 001
 - PHYS 020, 021, 055, 056, 057
 - PLSI 001
 - PSCI 020
3. Select additional transferable courses numbered 1-199 to achieve 60 units.

The Associate of Arts in Transfer Studies requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Transfer Information and Requirements** section for additional detail).

Associate Degrees

AA/AS

Not for Transfer



These degrees are not designed to transfer to a university.

The courses included may be transferable and may also apply to other degrees designed for transfer.

These degrees require a minimum of 60 units, including 25 units of associate degree general education courses as well as subject and competency requirements.

Associate of Science in Accounting - Not for Transfer* (AS)

Division: Business

This degree prepares students for entry-level employment and/or potential further study in the fields of Accounting and General Business Office Management. Students completing this degree will have a foundation for the field of Accounting through the study of accounting and business and will acquire a full understanding of computerized accounting systems and how to record the financial transactions of business. They will be able to prepare and analyze a business's financial statements and work with the company's internal and external accounting staff and advisors. They will have the ability to prepare individual income tax returns for California residents.

PROGRAM OUTCOMES:

- Accurately prepare an individual income tax return (Form 1040).
- Show proficiency in financial statement analysis.
- Accurately analyze, interpret, and record business transactions.
- Accurately record and retrieve company financial transactions and statements in a computerized bookkeeping program.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: accounting, office management, income tax preparation.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. ACCT 001 Financial Accounting	4	
and ACCT 002 Managerial Accounting	4	
B. ACCT 210 Computer Accounting	3	
C. ACCT 282 Individual Income Tax	5	
D. Select a minimum of 9 units from the following:	9	
BUS 082 Introduction to Business (3)		
BUS 100 Career Strategies (3)		
BUS 185 Ethics in Business and Industry (3)		
BUS 188 Human Relations in Business (3)		
E. Select a minimum of 3 units from the following:	3**	
BUS 020 Business Statistics (3)		A2
BUS 119 Quantitative Methods (3)		A2
BUS 295 Business Mathematics (3)		
F. COMP 138 Spreadsheet Design for Business	3	
Total Major Units:	31**	
3. ELECTIVES:		
Select additional degree applicable courses numbered 1-299 to achieve 60 units:	7-10	

Total Units: 60

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Science in Administration of Justice - Corrections Not for Transfer* (AS)

Division: Social Sciences

This degree prepares students for entry-level employment and/or potential further study in the field of Administration of Justice-Corrections through the study of theoretical, philosophical, and practical applications of topics related to corrections. Students will acquire skills allowing for beginning paraprofessional or professional employment in criminal justice.

PROGRAM OUTCOMES:

- Analyze ethical dilemmas encountered in the corrections and law enforcement fields and identify the correct ethical choice.
- Explain the “corrections umbrella” by applying definitions, concepts, and principles to the three branches of the corrections system.
- Exhibit strong and effective writing skills.
- Demonstrate knowledge/ability to listen and engage in verbal communication with a variety of people, taking into consideration cultural customs, beliefs, and lifestyles.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: county probation departments, county jails, halfway houses, group homes, crisis centers, juvenile hall and victim service agencies. At the state level, employment opportunities exist with the Department of Corrections and Rehabilitation and the Department of Juvenile Justice. The federal level offers employment with the U.S. Probation Department and the Bureau of Prisons. Note: Each corrections, probation and parole agency has specific employment and training requirements.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses and Restricted Elective that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. AJ 011 Intro to Criminal Justice	3	
B. AJ 014 Criminal Law 1	3	
C. AJ 113 Juvenile Laws and Procedures	3	
D. AJ 121 Introduction to Corrections	3	
Required Courses Units:	12	
3. Restricted Electives: List A		
Choose three of the following courses:		
AJ 114 Juvenile Delinquency	3	
AJ 117 Correction/Counseling	3	
AJ 123 Criminal Justice Ethics	3	C
AJ 130 Legal Aspects of Corrections	3	
Restricted Electives: List A Units:	9	

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The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a “C” or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a “C” (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 0-6 units may double count above in 1A (COS-GE).

Associate of Science in Administration of Justice - Corrections Not for Transfer* (AS)

Division: Social Sciences

(continued from previous page)

	Units	COS-GE AREA
4. Restricted Electives: List B Choose a minimum of three additional courses from either List A or List B or a combination of both lists (for a minimum of nine units):		
AJ 025 Constitutional Law	3	A2
AJ 045 Terrorism and Freedom	3	
AJ 111 Communications	3	
AJ 115 Criminal Law 2	3	
WEXP 193J AJ Wrk Exp-1st Sem	1-4	
WEXP 194 J AJ Wrk Exp-2nd Sem	1-4	
WEXP 195 J AJ Wrk Exp-3rd Sem	1-4	
WEXP 196 J AJ Wrk Exp-4th Sem	1-4	
Restricted Electives: List B Units:	9	
Total Major and Restricted Units:	30	
5. Electives:		
Select additional degree-applicable courses numbered 1-299 to achieve 60 units:	5-11	
Recommended courses for electives include CHLD 039, CHLD 042, CHLD 134 and SOC 043.		
Total Units:	60.00	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 0-6 units may double count above in 1A (COS-GE).

Associate of Science in Administration of Justice: Law Enforcement - Not for Transfer* (AS)

Division: Social Sciences

This degree prepares students for entry-level employment and/or potential further study in the field of Administration of Justice: Law Enforcement through the study of criminal law, laws of evidence, report writing, etc. Students will acquire knowledge necessary for advanced academic studies.

PROGRAM OUTCOMES:

- Demonstrate effective written and oral communication skills.
- Identify and describe the structure and functions of the American criminal justice system: law enforcement, courts, corrections (adult and juvenile).
- Identify and apply basic concepts associated with criminal law, laws of evidence, procedural law, general criminal investigation and community policing.
- Demonstrate an understanding of the importance of maintaining proper professional criminal justice standards of ethical conduct, and cultivating productive relationships with a myriad of different communities specifically relating to cultural customs, beliefs and lifestyles.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: state, federal and local law enforcement agencies.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
 Note: Required Major courses and Restricted Elective that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. AJ 011 Intro to Criminal Justice	3	
B. AJ 013 Community Relations	3	
C. AJ 014 Criminal Law 1	3	
D. AJ 112 Legal Aspects of Evidence	3	
E. AJ 118 Criminal Investigation	3	
F. AJ 119 Criminal Identification	3	
G. AJ 219 Police Patrol Procedures	3	
Required Major Courses Units:	21	

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The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 0-6 units may double count above in 1A (COS-GE).

Associate of Science in Administration of Justice: Law Enforcement - Not for Transfer* (AS)

Division: Social Sciences

(continued from previous page)

	Units	COS-GE AREA
3. Restricted Electives: Select a minimum of 9 units:		
AJ 025 Constitutional Law	3	A2
AJ 045 Terrorism and Freedom	3	
AJ 111 Communications	3	
AJ 113 Juvenile Laws and Procedures	3	
AJ 114 Juvenile Delinquency	3	
AJ 115 Criminal Law 2	3	
AJ 123 Criminal Justice Ethics	3	C
WEXP 193 J - 196 J AJ Wrk Exp 1st - 4th Sem	1-4	
Total Restricted Units:	9	
Total Major and Restricted Units:	30	
4. ELECTIVES:		
Select additional degree applicable courses numbered 1-299 to achieve 60 units:	5-11	
Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 0-6 units may double count above in 1A (COS-GE).

Associate of Science in Agricultural Business Management - Not for Transfer* (AS)

Division: Agriculture

This degree prepares students for entry-level employment and/or potential further study in the field of Agriculture Business Management through the study of sales and service, marketing, accounting and computer applications. Students will acquire skills in sales and service, marketing, accounting and computer applications, data evaluation, farm management and accounting.

PROGRAM OUTCOMES:

- Employ effective oral and written communication skills necessary to the agriculture business industry.
- Use critical thinking skills essential to contributing to the dynamic agribusiness environment.
- Demonstrate capability to assist upper management in business decisions related to the supply of food and fiber.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: bookkeeper, farm manager, retail sales in agriculture.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. AGMT 001 Agriculture Economics	3**	D
B. AGMT 102 Ag Sales and Marketing	3	
C. AGMT 103 Introduction to Agricultural Management	3	
D. AGMT 104 Agriculture Accounting	3	
E. AGMT 108 Ag Business Computer Apps	3	
F. WEXP 193 F Agricultural Work Experience	3	
Total Required Units:	18**	
3. ELECTIVES:		
Select additional degree applicable courses numbered 1-299 to achieve 60 units:	20	
Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Science in Agriculture Technology - Not for Transfer* (AS)

Division: Agriculture

This degree prepares students for entry-level employment in the field of Agriculture Technology through the study of agriculture equipment maintenance and repair, basic equipment construction and fabrication, including layout, finish and welding of metal agriculture structures. Students will acquire skills in uses of tools and equipment necessary for modern farming operations..

PROGRAM OUTCOMES:

- List, explain and demonstrate safety practices at all times.
- Explain and demonstrate basic equipment operation and maintenance for both small and large agriculture equipment.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: general agriculture, sales and service of agriculture equipment, equipment manufacturing, ag mechanics and welding.

	Units	COS-GE
AREA		
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. AGTC 106 Agriculture Welding	3	
B. AGTC 210 Ag Project Construction	3	
C. AGTC 225 Outdoor Power Equipment Applic	2	
D. WELD 104 Metal Sculpture	3**	C
E. WELD 162 Shielded Metal Arc Welding	4	
F. WEXP 193 F Agriculture Wrk Exp-1st Sem	1	
Required Major Units:	18	
3. RESTRICTED ELECTIVES:		
Choose 6 units from the following:		
AG 104 Safety in Ag Practices	1	
AG 200 Ag Leadership	1	
AGTC 202 Farm Equipment Construction	3	
AGTC 212 Welding Power Sources/Applicat	1	
AGMT 108 Ag Business Computer Apps	3	
Restricted Electives Units:	6	
Total Required and Restricted Units:	24	
4. Select additional degree applicable courses numbered 1-299 to achieve 60 units:		
Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Arts in American Sign Language - Not for Transfer* (AA)

Division: Language Arts

This degree prepares students for entry-level employment and/or potential further study in the field of American Sign Language through the study of signing and interpreting, language and deaf culture. Students will acquire skills and abilities in American Sign Language and an understanding of deaf culture.

PROGRAM OUTCOMES:

- Sign effectively and fluently, using the parameters of ASL.
- Demonstrate proficient receptive skills when using ASL.
- Be familiar with deaf culture and be able to articulate its basic history.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: entry-level interpreting, classroom aid, deaf student aid, advocacy for deaf culture.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses and Restricted Elective that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. ASL 002 Elem Amer Sign Lang	3**	C
B. ASL 003 Inter Amer Sign Lang	3	
C. ASL 004 Adv Amer sign Lang	3	
Required Courses Units:	9	
3. RESTRICTED ELECTIVES: (Select a total of nine units from the following list:)		
ASL 110 Sign Language Interpreting	4	
ASL 001 Beg Amer Sign Lang	4	
SOC 001 Introduction to Sociology	3**	D
SOC 002 Social Problems	3**	D
COMM 009 Intercultural Communication	3**	D
Restricted Elective Units:	9	
Total Required and Restricted Units:	18**	
4. ELECTIVES:		
Select additional degree applicable courses numbered 1-299 to achieve 60 units:	23	
Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 6 units may double count above in 1A (COS-GE).

Associate of Science in Animal Science - Not for Transfer* (AS)

Division: Agriculture

This degree program prepares students for entry-level employment in the field of Animal Science. Students completing this degree will acquire skills and knowledge in basic animal science practices such as animal restraint; veterinary terminology; basic animal health, care, nutrition and livestock reproduction.

PROGRAM OUTCOMES:

- Demonstrate knowledge, practical skills and abilities in animal health, ethology, housing and environment, food products, genetics, nutrition, and reproduction to successfully work in the animal agriculture industry.
- Identify and operate equipment and technology commonly used in the animal agriculture industry.
- Communicate professionally both in oral and written formats demonstrating sound knowledge of the animal agriculture industry in that communication.
- Describe and develop the necessary skills and requirements for pursuing careers in animal agriculture industry.

CAREER OPPORTUNITIES: Upon successful completion of this certificate students will be prepared for employment in the following fields: livestock operator, animal health technician, meat inspector and/or grader, or sales and service support staff.

		Units
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)		25
Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. AGMT 103	Agriculture Management	3
B. ASCI 001	Intro to Animal Science	3
C. ASCI 002	Livestock Selection/Evaluation	3
D. ASCI 103	Animal Nutrition	3
E. ASCI 104	Animal Diseases & Sanitation	3
F. WEXP 193 F	Agriculture Wrk Exp-1st Sem	3
	Required Major Units:	18
3. RESTRICTED ELECTIVES: (Select three courses from the following)		
ASCI 022	Horse Husbandry	3
ASCI 110	Swine Production & Managem't	3
ASCI 111	Beef Productin & Management	3
ASCI 112	Sheep production & Managem't	3
ASCI 113	Farm Animal Biology	3
ASCI 123	Horse production	3
DSCI 101	Introduction to Dairy Science	3
	Restricted Elective Units:	9
	Total Required and Restricted Units:	27
4. ELECTIVES:		
	Select additional degree applicable courses numbered 1-299 to achieve 60 units:	8
	Total Units:	60

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

Associate of Science in Architecture - Not for Transfer* (AS)

Division: Industry & Technology

This degree prepares students for entry-level employment and/or potential further study in the field of Architecture through the study of design, visual communication, architecture history, and construction technology. Students will acquire skills, knowledge, and abilities related to predesign, conceptual design, schematic design, design development, tactile (by hand) model-making, digital (computer) model-making, building information modeling (BIM), tactile (by hand) graphics/drawing, digital (computer) graphics/drawing, architecture history, computer-assisted drafting and design (CAD), construction materials and methods, construction documents, and detailing.

PROGRAM OUTCOMES:

- Create and appraise architectural design.
- Create and distinguish 2D and 3D visual communication drawings (tactile and digital).
- Analyze and differentiate architecture history.
- Create and analyze documents related to construction technology.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: architecture, environmental design, interior design, planning, landscape architecture, product design, and civil engineering. Architecture Department Website: www.cos.edu/architecture.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS: College of the Sequoias' Associate Degree General Education (COS-GE)	25	

Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.

2. REQUIRED MAJOR COURSES:

_A. ARCH 010	Architectural Design 1	4	
B. ARCH 070	Architecture History 1	3**	C
C. ARCH 162	Conceptual Structural Analysis	3	
D. DRFT 114	Introduction to CAD	4	
E. ARCH 011	Architectural Design 2	4	
F. ARCH 071	Architecture History 2	3	
G. ARCH 120	Freehand Drawing	3	
H. ARCH 161	Architectural Detailing3		
I. ARCH 013	Architectural Design 3	4	
J. ARCH 020	Visual Communication 1	3	
K. ARCH 160	Construction Materials/Methods	4	
L. ARCH 014	Architectural Design 4	4	
M. ARCH 021	Visual Communication 2	3	
N. ARCH 121	Perspective Alternatives	3	
O. ARCH 163	Construction Documents	3	
	Required Courses Units:	51	
	Total Units:	73	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Science in Automotive Technology (Basic) - Not for Transfer* (AS)

Division: Industry & Technology

This degree prepares students for entry-level employment in the field of Automotive Technology (Basic) through the study of diagnosis, service and repair of automotive systems in an automotive shop environment. Students will acquire skills in working safely in the automotive shop and performing repair tasks correctly and safely using correct tools.

PROGRAM OUTCOMES:

- Use the proper automotive terminology to discuss systems operation, methods of diagnosis and needed repairs.
- Prepare a written estimate of needed system repairs and estimate the related costs.
- Practice safety in the repair and service associated with electrical, hydraulic and mechanical systems.
- Demonstrate the ability to describe construction components and apply necessary skills for their respective approach to select the proper method to diagnose, test and repair automotive systems.
- Demonstrate proficiency in the use of automotive diagnostic equipment to evaluate system performance and determine needed repairs.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: automotive and transmission disassembly, repair or rebuilding; diagnosis and repair or replacement of clutch assemblies; and the diagnosis, repair and servicing of differentials, electronic and electrical systems; suspension and steering systems; brake systems; heating and air conditioning; and drivability concerns and engine performance.

This degree will also meet national certification and training standards (NATEF) for automotive service excellence and ASE testing and certification in all automotive categories.

		Units
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)		25
Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. AUTO 130	Intro to Automotive Technology	3
B. AUTO 231	Automotive Engine Systems	4
C. AUTO 232	Auto Automatic Transmissions	4
D. AUTO 233	Automotive Power Train Systems	4
E. AUTO 234	Auto Suspension/Steering System	4
F. AUTO 235	Automotive Brake Systems	4
G. AUTO 136	Automotive Electrical Systems	4
H. AUTO 237	Automotive Air Conditioning	4
I. AUTO 238	Automotive Engine Performance	4
	Required Courses	Units:
		35
3. ELECTIVES:		
	Select additional degree applicable courses numbered 1-299 to achieve 60 units:	0
Total Degree Units:		60

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

Associate of Science in Business - Not for Transfer* (AS)

Division: Business

This degree prepares students for entry-level employment and/or potential further study in the field of Business through the study of general business, communications, math, computers, ethics, and human relations. Students will acquire skills in computer applications, keyboarding and ten-key, office management and procedures, and oral and written communications.

PROGRAM OUTCOMES:

- Communicate effectively in a business environment.
- Actively participate in the day-to-day operations of a business office.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: administration, management, human resources, finance, secretarial, and various office positions.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. BUS 082 Introduction to Business	3	
B. BUS 100 Career Strategies	3	
C. BUS 112 Public Speaking for Business	4	A2
or COMM 112		
D. BUS 184 Business Communications	3	
E. BUS 185 Ethics in Business and Industry	3	
F. BUS 188 Human Relations in Business	3	C
G. BUS 268 Electronic Calculating	2	
H. BUS 270 College Keyboarding Level 1	3	
or BUS 271 College Keyboarding Level 2	3	
I. BUS 293 Business English	4	
J. COMP 005 Computer Concepts	4	
or COMP 130 Intro to Personal Computers	4	
Required Courses Units:	32	
3. Restricted Electives - A		
Select a minimum of three units from the following:		
BUS 020 Business Statistics	3	
BUS 119 Quantitative Methods	3	
BUS 295 Business Mathematics	3	
Restricted Electives - A Units:	3	

(continued on next page)

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 6 units may double count above in 1A (COS-GE).

Associate of Science in Business - Not for Transfer* (AS)

Division: Business

(continued from previous page)

	Units	COS-GE AREA
4. Restricted Electives - B		
Select a minimum of three units from the following:		
BUS 174 Marketing Principles	3	
BUS 181 Intro to Entrepreneurship	3	
WEXP 193 I Bus & Ind Wrk Exp-1st Sem	1-3	
WEXP 194 I Bus & Ind Wrk Exp-2nd Sem	1-3	
WEXP 195 I Bus & Ind Wrk Exp-3rd Sem	1-3	
WEXP 196 I Bus & Ind Wrk Exp-4th Sem	1-3	
Restricted Electives - B Units	3	
Total Required and Restricted Units:	38	
5. Electives		
Select additional degree applicable courses numbered 1-299 to achieve 60 units:	3	
Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 6 units may double count above in 1A (COS-GE).

Associate of Science in Child Development - Not for Transfer* (AS)

Division: Consumer/Family Studies

This degree prepares students for entry-level employment and/or potential further study in the field of early childhood education programs. Students completing this degree will have a foundation in early childhood education through the study of child development theory and best practices in early care and education and will acquire skills and lab experience to orient them into the field of early childhood care and education workforce. It will also provide the education required to obtain a California Child Development Permit at a teacher and/or site supervisor level.

PROGRAM OUTCOMES:

- Identify and analyze the major theories and/or principles of child development.
- Complete lab experience needed for employment in a licensed child care facility at an approved site.
- Explain the requirements for CA Title 22 Licensing Regulations regarding health, safety, nutrition and mandated reporting law.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: teacher, master teacher, mentor teacher or site supervisor in early childhood programs (i.e., infant/toddler, preschool, school age, full inclusion); Preschool Director in a Title 22 Child Care Center, Early Intervention Assistant II in State Pre-school and K-12 school districts, Child Development Specialist for Resource and Referral Program, Para Educator (Title I Schools), Family Support Services Worker (Home Base).

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. CHLD 039 Child Development-DS1	3**	D
B. CHLD 042 Child, Family & Society-DS2	3	
C. CHLD 126 Observation and Assessment-DS3	3	
D. CHLD 140 Principles of ECE-DS3	3	
E. CHLD 141 Practices in ECE-DS3	3	
F. CHLD 148 Child Health/Safety-DS7	3	
G. CHLD 149 Creative Curriculum for Young Children-DS3	3	
H. CHLD 158 Cultural Diversity in ECE-DS3	3	
Total Required Units:	24	
3. ELECTIVES:		
Select additional degree applicable courses numbered 1-299 to achieve 60 units:	14	
Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Science in Computer Programming & Information Systems - Not for Transfer* (AS)

Division: Business

This degree prepares students for entry-level employment and/or potential further study in the field of computer programming and information systems through the study of skills in computer programming, web development, databases, maintaining computer programs and databases, as well as general computer and office skills. Students will acquire skills in computer programming, web design, computer technical support, database development/maintenance.

PROGRAM OUTCOMES:

- Write programs based on classes.
- Write programs utilizing repetitive structures.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: computer programming, web design, computer technical support, database development/maintenance, and various office positions involving computers.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. COMP 005 Computer Concepts (4)	4	
or COMP 130 Introduction to Personal Computers (4)	3**	A2
B. COMP 006 Programming Fundamentals	4	
C. COMP 008 Programming Concepts (Java)	3	
D. COMP 009 Advanced Application Software	3	
E. COMP 133 Database Processing	3	
F. COMP 138 Spreadsheet Design for Business	3	
G. COMP 229 Web Page Design & Development	3	
H. COMP 230 JavaScript/XML	3	
Required Courses Units:	26	
3. RESTRICTED ELECTIVES: Select a minimum of 3 units from the following		
BUS 271 College Keyboarding Level 2	3	
COMP 135 Desktop Publishing for Business	4	
Restricted Elective Units:	3-4	
Total Required and Restricted Units:	29-30**	
4. ELECTIVES: Select additional degree applicable courses numbered 1-299 to achieve 60 units.	8-9	
Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Science in Construction Inspection - Not for Transfer* (AS)

Division: Industry & Technology

This degree prepares students for entry-level employment in the field of Construction Inspection through the study of residential and commercial building codes, residential and commercial inspection. Students will acquire skills in inspection of foundations, walls, roofs, mechanical systems, electrical systems and life safety functions.

PROGRAM OUTCOMES:

- Demonstrate the ability to conduct residential inspections.
- List the inspections necessary, given a set of residential plans, to complete the residential inspection process with an accuracy of 75%.
- Understand the process of becoming a certified inspector and the levels of certification.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: building inspection at local building levels, state and municipal building levels, home inspection, project-level inspection.

	Units	
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. CT 109 Project Management/Codes	3	
B. CT 132 Basic Building Systems/Codes	3	
C. CT 271 Life Safety for Construction	3	
D. CT 273 Electrical Codes	3	
E. CT 274 Mechanical Inspection	3	
F. CT 275 Plumbing Inspection	3	
G. CT 276 Architecture Inspection	3	
H. CT 277 Structural Inspection	3	
Required Courses Units:	24	
3. Restricted Electives (Choose 6 - 8 units from the following:)		
CT 100 Const Draw/Design Analysis 1	4	
CT 101 Const Draw/Design Analysis 2	4	
CT 105 Computer Asst. Const. Theory	4	
CT 204 Construction Theory/Practice 1	4	
CT 205 Plumbing	2	
CT 261 Cabinetmaking	4	
CT 262 Cabinet and Furniture Const.	4	
CT 270 Residential Wiring	3	
COMP 005 Computer Concepts	4**	A2
Restricted Electives Units:	6-8	
3. ELECTIVES:		
Select additional degree applicable courses numbered 1-299 to achieve 60 units:	6-8	
Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Science in Construction Technology - Not for Transfer* (AS)

Division: Industry & Technology

This degree prepares students for entry-level employment in the field of Construction Technology through the study of project management utilizing computer driven estimating, plan reading, scheduling, and budget control processes. Students will acquire skills in basic construction management, knowledge of basic building codes and code authority enforcement, basic concepts of building systems, construction plan reading and development, knowledge of computer programs utilized in managing construction projects and managing quality in construction.

PROGRAM OUTCOMES:

- Demonstrate abilities to describe construction components and apply necessary skills for their respective application.
- Demonstrate safe and proper methods of operation of construction related power tools.
- Demonstrate national skill and theory competetiveness by passing accumulative testing modules NCCER (National Center for Construction Education and Research) throughout their CT coursework.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: assisting construction managers, materials take-off and assisting materials estimators, drafting plans, entry-level carpenters, entry-level finish installer, entry-level concrete installers, retail sales, outside sales for building materials or services, entry level building inspector.

	Units
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:	
A. College of the Sequoias' Associate Degree General Education (COS-GE)	22
2. REQUIRED MAJOR COURSES:	
A. CT 100 Const Draw & Design Analysis 1	4
B. CT 101 Const Draw & Design Analysis 2	4
C. CT 105 Computer Asst. Const. Theory	4
D. CT 204 Construction Theory/Practice 1	4
E. CT 220 Construction Practices 1	2.5
F. CT 221 Construction Practices 2	2.5
G. CT 222 Construction Practices 3	2.5
H. CT 223 Construction Practices 4	2.5
I. CT 250 Basic Carpentry/Const. Practice	4
J. CT 260 Interior Millwork	4
Required Major Units:	34
2. RESTRICTED ELECTIVES (Select two of the following courses):	
CT 109 Residential Codes and Inspect	3
CT 130 Intro to Const. Practices	4
CT 132 Basic Building System & Codes	3
CT 205 Plumbing	3
CT 261 Cabinetmaking	4
CT 262 Cabinet and Furniture Const.	4
CT 270 Residential Wiring	3
Restricted Elective Units:	6-8
Total Degree Units:	62-64

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

Associate of Arts in Dance - Not for Transfer* (AA)

Division: Physical Education

This degree prepares students for entry-level employment and/or potential further study in the field of Dance through the study of ballet, modern, jazz, current dance trends, musical theatre and choreography. Students will acquire skills in teaching, skill analysis, terminology, presentation, flexibility, strength and endurance..

PROGRAM OUTCOMES:

- Choreograph dance combinations using specified lines, design, technique and/or vocabulary.
- Develop and increase competency in a specific dance form as well as assess and analyze commonalities and differences with other dance forms.
- Apply aesthetic principles and critical thinking skills in the creation, performance and analysis of dance.
- Evaluate theatrical forms of dance in a socio-historical context as an artistic, political or ideological medium of communication.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: private dance studios, recreation programs, after school programs, dance drill/auxiliary teams, fitness gyms, cheerleading, entertainment parks, or with semiprofessional or professional theater or dance companies.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	

Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.

2. REQUIRED MAJOR COURSES:

A. ART 001	Art Appreciation	3**	C
B. DANC 050	Ballet 1	1	
C. DANC 051	Ballet 2	1	
D. DANC 055	Modern Dance 2	1	
E. DANC 056	Contemporary Dance	1	
F. DANC 058	Jazz Dance 1	1	
G. DANC 059	Jazz Dance 2	1	
H. DANC 080	Choreography	1	
I. DANC 085	Dance Production 1	1	
J. DANC 082	Improvisational Dance	1	
K. MUS 010	Music Appreciation	3	
	Required Major Units:	15**	

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The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Arts in Dance - Not for Transfer* (AA)

Division: Physical Education

(continued from previous page)

	Units	COS-GE AREA
3. RESTRICTED ELECTIVES: Select a minimum of 6 units from the following:		
DANC 041 Musical theatre Perf-Dance	2	
DANC 054 Modern Dance 1	1	
DANC 061 Musical Dance Styles	1	
DANC 062 Tap Dancing 1	1	
DANC 063 Tap Dancing 2	1	
DANC 070 Hip Hop	1	
DANC 071 Dance Crew	1	
DANC 081 Studies in Choreography	1	
DRAM 017 Makeup	3	
PEAC 060 Varsity Performance 1	2	
PEAC 061 Varsity Performance 2	2	
Restricted Elective Units:	6	
Total Major and Restricted Units:	21**	
4. ELECTIVES:		
Select additional degree applicable courses numbered 1-299 to achieve 60 units:	17	
Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Science in Drafting Technology - Not for Transfer* (AS)

Division: Industry & Technology

This degree prepares students for entry-level employment and/or potential further study in the field of Drafting Technology through the study of drafting technology, architecture, computers, and graphic design. Students will acquire skills, knowledge, and abilities in CAD, visual communication, computer concepts, graphic design, and construction technology.

PROGRAM OUTCOMES:

- Create and analyze documents related to computer assisted and tactile drafting/design.
- Create and distinguish tactile 2D and 3D visual communication drawings.
- Manage and explain computer operating systems and the world wide web.
- Create and distinguish graphic design projects, i.e. illustrations and web page design and development
- Create and analyze documents related to construction technology, i.e., construction materials and methods, detailing, and construction documents.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: manufacturing or industrial mechanical drafting technology. Students planning to transfer to a university and pursue a higher degree should be aware of all the requirements set by that university and select classes accordingly.

Architecture Department Website: www.cos.edu/architecture.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	

Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.

2. REQUIRED MAJOR COURSES:		
A. ARCH 020	Visual Communication 1	3**
B. COMP 140	Computer Operating Systems	3
C. GD 159	Adobe Illustrator	2
D. DRFT 114	Introduction to CAD	4
E. ARCH 120	Freehand Drawing	3
F. ARCH 161	Architectural Detailing	3
G. DRFT 112	Mechanical Drafting 1	3
H. DRFT 115	Advanced CAD	4
I. ARCH 160	Construction Materials/Methods	4
J. COMP 229	Web Page Design and Development	3
K. COMP 228	Make the Most of the Internet	1
L. DRFT 016	CAD Applications	4
M. ARCH 163	Construction Documents	3
N. DRFT 113	Mechanical Drafting 2	3
	Required Courses Units:	43**
	Total Degree Units:	65

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Arts in Dramatic Arts: Acting - Not for Transfer* (AA)

Division: Fine Arts

This degree prepares students for entry-level employment and/or potential further study in the field of Dramatic Arts - Acting through the study of acting theories, dramatic literature and performance styles. Students will acquire skills in the application of modern acting theories, classical early realist, absurdist, modern and contemporary performing styles, text analysis and character development and maintenance of the body and voice.

PROGRAM OUTCOMES:

- Critically analyze the acting component of a publicly produced production.
- Apply historical context to a performance.
- Synthesize interpretation of ideas with the physical/psychological action in performance in front of an audience.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: professional actor, education and psychology.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses and Restricted Elective that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. DRAM 001 Introduction to the Theatre	3**	C
B. DRAM 002 Fundamentals of Acting 1	4	
C. DRAM 003 Fundamentals of Acting 2	3	
D. DRAM 004 Intermediate Acting 1	3	
E. DRAM 005 Intermediate Acting 2	3	
F. DRAM 006 Shakespeare	3	
Required Courses Units:	19	
3. RESTRICTED ELECTIVES-Production: (Select two of the following courses.)		
DRAM 019 Rehearsal & Performance 1	2	
DRAM 020 Music Theatre Rehears & Perform	2	
DRAM 021 Rehearsal and Performance 2	2	
DRAM 022 One Act Play Production	2	
Restricted Electives-Production Units:	4	

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The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Arts in Dramatic Arts - Acting - Not for Transfer* (AA)

Division: Fine Arts

(continued from previous page)

	Units	COS-GE AREA
4. RESTRICTED ELECTIVES: (Choose 19 units from the following.)		
DRAM 012 Costuming	3	
DRAM 013 Beginning Stagecraft	3	
DRAM 017 Makeup	3	
DRAM 019 Rehearsal & Performance 1	2	
DRAM 020 Music Theatre Rehears & Perform	2	
DRAM 021 Rehearsal and Performance 2	2	
DRAM 022 One Act Play Production	2	
DRAM 030 Stage Movement/Stage Combat	2	
DRAM 040 Music Theater	3	
CINA 031 Film Appreciation-American	2	
CINA 032 Film Apprec-International	2	
Restricted Electives Units:	19	
Total Required and Restricted Units:	42**	
Total Units:	64	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Arts in Dramatic Arts - Technical - Not for Transfer* (AA)

Division: Fine Arts

This degree prepares students for entry-level employment and/or potential further study in the field of Dramatic Arts - Technical through the study of stagecraft, costuming, makeup and lighting. Students will acquire skills in set construction, costume construction, lighting design/plot and makeup design and application.

PROGRAM OUTCOMES:

- The student will apply historical context to a technical aspect of a production.
- The student will critically analyze the technical component(s) of a publicly produced production.
- The student will synthesize implementation of physical, visual, and/or aural elements within a production in front of an audience.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: stage run crew, light/sound board operator, stage electrician/carpenter/welder, scenic artist and wardrobe/makeup crew.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses and Restricted Elective that double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. DRAM 001 Introduction to the Theatre	3**	C
B. DRAM 002 Fundamentals of Acting 1	4	
OR		
DRAM 003 Fundamentals of Acting 2	3	
C. DRAM 012 Costuming	3	
D. DRAM 013 Beginning Stagecraft	3	
E. DRAM 015 Beginning Stage Lighting	3	
F. DRAM 017 Makeup	3	
G. DRAM 019 Rehearsal & Performance 1	2	
H. DRAM 020 Music Theatre Rehears & Perform	2	
I. DRAM 021 Rehearsal and Performance 2	2	
J. DRAM 022 One Act Play Production	2	
Required Courses Units:	26-27	
3. RESTRICTED ELECTIVES: (Select at least 8 units from the following courses)		
DRAM 006 Shakespeare	3	
DRAM 014 Intermediate Stagecraft	3	
DRAM 016 Intermediate Stage Lighting	3	
CINA 031 Film Appreciation-American	2	
CINA 032 Film Apprec-International	2	
Restricted Elective Units:	8	
Total Required and Restricted Units:	34-35**	
4. ELECTIVES:		
Select additional degree applicable courses numbered 1-299 to achieve 60 units:	3-4	
Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Science in Environmental Control Technology (HVAC) - Not for Transfer* (AS)

Division: Industry & Technology

This degree prepares students for entry-level employment in the field of Environmental Control Technology through the study of air conditioning, heating and refrigeration. Students will acquire skills in air conditioning, heating and refrigeration troubleshooting and repair.

PROGRAM OUTCOMES:

- Read and interpret an electrical schematic.
- Troubleshoot a basic heating and air conditioning system.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: HVAC/R technician, sales, service and repair.

	Units
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:	
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25
 Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.	
2. REQUIRED MAJOR COURSES:	
A. ECT 280 Elec. & Controls for HVAC	4
B. ECT 281 Basic Air Conditioning	12
C. ECT 282 Adv Air Cond/Refrig Com/Dom	12
D. ECT 242 Air Conditioning Sheet Metal	4
Required Courses Units:	32
3. ELECTIVES:	
Select additional degree applicable courses numbered 1-299 to achieve 60 units:	3
Total Units:	60

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

Associate of Science in Fashion Design - Not for Transfer* (AS)

Division: Consumer/Family Studies

This degree prepares students for entry-level employment and/or potential further study in the field of Fashion Design through the study of designing and creating garments and accessories for manufacturers or to start a business. Students will acquire skills in design for apparel and accessories, pattern creation, selection of materials, and marketing finished products.

PROGRAM OUTCOMES:

- At the end of this program, students will have a basic knowledge of garment construction and pattern drafting methods related to fashion industry standards.
- At the end of this program, students will be able to apply elements and principles of design to the development and creation of designed garments using the following learned skills as they pertain to fashion industry standards: identification and knowledge of textiles, garment construction and pattern making.
- At the end of this program, students will be able to identify and appraise a variety of career paths within the fashion industry.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: fashion designer, pattern drafter, pattern grader, sample maker, production manager, shipping manager, manufacturer’s sales representative, dressmaker, tailor and alterationist.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias’ Associate Degree General Education (COS-GE)	25	
Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. ART 006 Color and Design	3**	C
B. FASH 076 Textiles	3	
C. FASH 141 Principles of Fashion	3	
D. FASH 160 Clothing Construction	3	
E. FASH 161 Tailoring	3	
F. FASH 162 Fashion/Design/Patternmaking	3	
Required Courses Units:	18	
3. RESTRICTED ELECTIVES: (Select 3 units from the following)		
FASH 140 Intro to the Fashion Industry	3	
FASH 142 Visual Merchandising and Sales	3	
FASH 263 Basic Sewing	3	
Restricted Elective Units:	3	
Total Required and Restricted Units:	21**	
4. ELECTIVES:		
Select additional degree applicable courses numbered 1-299 to achieve 60 units:	17	
Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a “C” or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a “C” (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Science in Fashion Merchandising - Not for Transfer* (AS)

Division: Consumer/Family Studies

This degree prepares students for entry-level employment and/or potential further study in the field of Fashion Merchandising through the study of garment production and distribution to retail stores at an advanced level. Students will learn factors that influence fashion forecasting and identify target markets for current fashion trends. Students will acquire skills in identifying clothing sizes, price ranges, style classification for women, men and children.

PROGRAM OUTCOMES:

- Identify and appraise a variety of career paths within the fashion industry.
- Identify and apply visual merchandising principles, tools and methods to create an effective visual store layout.
- Apply elements and principles of design to the development, production, selection, and evaluation of apparel and other textile products.
- Evaluate different fabrics and fibers with respect to their application and end use.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: retail supervisor, buyer or sales representative, store manager, visual manager, retail fashion coordinator, fashion stylist, and display specialist.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses that may double count for specific COS-GE AREAS are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. ART 006	Color and Design	3** C
B. FASH 076	Textiles	3
C. FASH 140	Intro to the Fashion Industry	3
D. FASH 141	Principles of Fashion	3
E. FASH 142	Visual Merchandising and Sales	3
G. FASH 160	Clothing Construction	3
H. WEXP 193 Z	Fashion Wrk Exp-1st Sem	3
	Required Courses Units:	21**
3. ELECTIVES:		
	Select additional degree applicable courses numbered 1-299 to achieve 60 units:	17
	Total Units:	60

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 6 units may double count above in 1A (COS-GE).

Associate of Science in Fire Technology - Not for Transfer* (AS)

Division: Special Programs

This degree prepares students for entry-level employment and/or potential further study in the fields of fire protection and prevention. Students completing this degree will have a foundation for the fields of fire protection, prevention, or public education through the study of the organization and function of fire prevention and suppression techniques, fire behavior, combustible materials, extinguishing agents, hazardous and toxic material, fire command and fire management. The student will acquire knowledge in the design and operation of fire detection and alarm systems; fire protection features in building design and construction, wildland fire behavior and firefighting techniques; fire service organization, fire prevention, and theories of fire control. The Fire Technology program is based on the Uniform Fire Service Technology curriculum as approved by the State Board of Fire Services and the California Fire Chiefs Association. Successful completion of the program qualifies the student for State Firefighter 1 certification pending completion of either 6 months experience as a full-time paid firefighter or twelve months of experience as a volunteer firefighter.

PROGRAM OUTCOMES:

- Explain the history and basic principles of the fire service.
- Demonstrate effective communication and interpersonal skills with supervisors, peers, and the public.
- Demonstrate an understanding of the principles of fire development, cause, and prevention.
- Demonstrate in-depth knowledge of the principles of fire control through the utilization of personnel, equipment, extinguishing agents on the fire ground.
- Apply knowledge of building construction, fire protection systems, and fire prevention codes to affect safer occupancies and fire control.
- Apply the theory and principles for the use of water in fire suppression activities, including hydraulic principles.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: firefighter, firefighter-paramedic, fire investigation, fire prevention, hazardous materials, and public education. The fire service offers many career opportunities for graduates including positions in municipal fire departments, fire protection districts, and more than 250 California state fire protection agencies. There are also employment opportunities in forestry agencies, correctional institutions, military bases, and numerous federal agencies.

	Units
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:	
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25
2. REQUIRED MAJOR COURSES:	
A. FIRE 155 Fire Behavior and Combustion	3
B. FIRE 157 Fire Prevention Technology	3
C. FIRE 159 Introduction to Fire Protection Organization	3
D. FIRE 160 Fire and Emergency Safety	3
E. FIRE 163 Fire Protection Equipment and Systems	3
F. FIRE 182 Building Construction for Fire Protection	3
Required Courses Units:	18

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The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

Associate of Science in Fire Technology - Not for Transfer* (AS)

Division: Special Programs

(continued from previous page)

3. RESTRICTED ELECTIVES (Select option A or B):

Note: Most students complete option A. Students who have completed the Basic Fire Fighter Academy requirements through Work Experience are exempt from taking FIRE 270 and should select option B to complete degree.

A. To receive an A.S. Degree AND to meet minimum qualifications for employment as a fire fighter the following courses are REQUIRED:

- | | | |
|----|----------|--|
| A. | EMT 251 | Emergency Medical Technician B (5) |
| B. | FIRE 270 | Basic Fire Fighter 1 Academy (15) (Maximum 9 units accepted) |

B. For career opportunities in fields OTHER THAN a fire fighter and students exempt from taking FIRE 270, select a minimum of 13 units from the following:

			Units
A.	EMT 251	Emergency Medical Technician B	5
B.	FIRE 125	Fundamentals of Fire Apparatus and Equipment	3
C.	FIRE 156	Fire Service Hydraulics	3
D.	FIRE 161	S.F.M. Fire Prevention 1A	2
E.	FIRE 162	S.F.M. Fire Prevention 1B	2
F.	FIRE 168	S.F.M. Training Instructor 1A	2
G.	FIRE 169	S.F.M. Training Instructor 1B	2
H.	FIRE 173	S.F.M. Fire Command 1A	2
I.	FIRE 174	S.F.M. Fire Command 1B	2
J.	FIRE 275	S.F.M. Fire Command 1C	2
K.	FIRE 277	S.F.M. Fire Management 1	2
L.	FIRE 280	Fire Fighter 2 Academy	5
Restricted Elective Units:			13
Total Required and Restricted Units:			31

4. ELECTIVES

Select additional degree applicable courses numbered 1-299 to achieve 60 units: 3-4

Total Degree Units: 60

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

Associate of Science in Graphic Design - Not for Transfer* (AS)

Division: Industry and Technology

This degree prepares students for entry-level employment and/or potential further study in the field of Graphic Design through the study of graphic design and graphic art. Students completing this degree will have a foundation for the field of graphic design through the study of graphic design, art, and computers and will acquire skills, knowledge, and abilities in graphic design, web page design, Adobe Illustrator, PhotoShop, and InDesign.

PROGRAM OUTCOMES:

Create and appraise graphic designs related to graphic design applications, integrated graphics, digital imaging for artists, and web page design and development utilizing various graphic design computer programs such as Adobe Illustrator, PhotoShop, and InDesign.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: graphic design and graphic art.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. GD 163 Adobe InDesign	3	C
B. ART 006 Color and Design	3	
C. ART 008 Drawing Fundamentals	3	
D. GD 159 Adobe Illustrator	2	
E. GD 161 Graphic Design Applications	4	
F. ART 025 Digital Imaging for Artists	3	
G. GD 160 Graphic Design	4	
H. ART 178 Beginning Plate Lithography	3	
I. ART 007 Advanced Color and Design	3	
J. GD 162 Integrated Graphics	4	
K. COMP 229 Web Page Design and Development	3	
Required Courses Units:	35	
3. ELECTIVES:		
Select additional courses numbered 1-299 to achieve 60 units.		
Total Electives Units:	3	
Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Science in Human Services (Social Work) - Not for Transfer* (AS)

Division: Social Sciences

This degree prepares students for entry-level employment in the field of Human Services (Social Work) through the study of legal and ethical issues, theories of practice and human behavior, history of social welfare and current policies. Students will acquire skills in critical thinking, case planning, crisis intervention, theory-based assessment, working knowledge of community resources and experience in a human services agency.

PROGRAM OUTCOMES:

- Use a case vignette in each course to analyze the case and identify problem areas.
- Use a case vignette in each course to identify any legal and ethical issues that might arise while providing services to the case.
- Use a case vignette in each course to assess area in need of intervention and discuss these interventions.
- Identify community resources that could be used to assist a person or family in a case vignette in each course.
- Identify areas of support and self-care that are needed for students to professionally assist the clients in specific case vignettes, such as supervision, consultation, personal counseling.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: entry level jobs in Health and Human Services and a variety of non-profit agencies in the community in the area of crisis management, substance abuse, eligibility, and case management.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	

Note: Required Major courses and Restricted Elective that may double count for specific COS-GE AREAs are designated in the COS-GE column.

2. REQUIRED MAJOR COURSES:

A.	COMP 005 or COMP 130	Computer Concepts Introduction to Personal Computers	4**	A2
B.	ECON 025 or ECON 040 or BUS 297	Introduction to Economics Principles of Microeconomics Personal Finance	4 3** 3**	D8 D8
C.	HSRV 101	Group Design and Leadership	3	
D.	HSRV 102	Drug and Alcohol Treatment	4	
E.	HSRV 120	Intro to Social Welfare	3	
F.	HSRV 121	Interviewing	3	
G.	HSRV 122	Intro of Human Services	4	
		Required Courses Units:	3	
			24	

3. Required Work Experience

Select a minimum of six units from any of the following courses:

WEXP 193 H	Human Services Wrk Exp-1st Sem`		1-4	
WEXP 194 H	Human Services Wrk Exp-2nd Sem		1-4	
WEXP 195 H	Human Services Wrk Exp-3rd Sem		1-4	
WEXP 196 H	Human Services Wrk Exp-4th Sem		1-4	

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The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 0-6 units may double count above in 1A (COS-GE).

Associate of Science in Human Services (Social Work) - Not for Transfer* (AS)

Division: Social Sciences

(continued from previous page)

	Units	COS-GE AREA
4. Restricted Electives		
Select 9 units from the following:		
ANTH 010 Cultural Anthropology	3	
PSY 001 General Psychology	3	
PSY 005 Social Psychology	3	
PSY 010 Human Sexuality	3	
PSY 034 Abnormal Psychology	3	
PSY 133 Personal and Social Growth	3	
SOC 026 Marriage and Family Life	3	
Restricted Elective Units:	9	
Total Required and Restricted Units:	39	
5. Electives:		
Select additional courses numbered 1-299 to achieve 60 units.		
Total Electives Units:	0-2	
Total Units:	60-64	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 0-6 units may double count above in 1A (COS-GE).

Associate of Science in Industrial Maintenance Technology - Not for Transfer* (AS)

Division: Industry & Technology

This degree prepares students for entry-level employment and/or potential further study in the fields of Industrial Technology/Industrial Maintenance. Students completing this degree will have a foundation for the field of Industrial Technology through the study of electricity, motor controls and programmable motor drives, programmable logic controllers, hydraulics/pneumatics, industrial mechanics, machining, refrigeration and boilers, and welding. Students will acquire skills and abilities in the design of electrical circuits, reading and interpreting schematics, encoding programmable devices, and design of facility changes for industrial applications.

PROGRAM OUTCOMES:

- Identify, design, and troubleshoot an industrial electrical circuit with a multi-meter to include motor control and building power distribution.
- Read a print, repair and maintain the mechanical components of hydraulic and pneumatic circuits found in industrial machines to like new condition.
- Design, program, and troubleshoot both programmable logic controllers (PLC), and variable frequency drives (VFD). This is accomplished in single phase and three phase circuits.
- Weld in three modes: MIG, STICK, and TIG to industrial maintenance standards.
- Have additional entry level job skills in: machining, boilers, refrigeration, mechanics, motor control, and fabrication.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: industrial maintenance technician, industrial machine operator, industrial electrician, corrections facilities maintenance, hospital engineer, and food service machine technician.

There are two possible options for completing this degree. Students may either take the first eight courses OR take the list of courses, including work experience that follows.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
 Note: Required Major courses and Restricted Elective that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. ITEC 110	3	Electricity and Electronics
B. ITEC 111	3	Manufacturing Processes
C. ITEC 112	4	Welding Principles 1
D. ITEC 213	5	Industrial Mechanics
E. ITEC 120	3	Programmable Logic Controllers
F. ITEC 222	5	Automated Controls
G. ITEC 223	4	Welding Principles 2
H. ITEC 224	3	Hydraulics and Pneumatics
OR		

(continued on next page)

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

Associate of Science in Industrial Maintenance Technology - Not for Transfer* (AS)

Division: Industry & Technology

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		Units	COS-GE AREA
A. ITEC 106	Industrial Maintenance 1	4	
B. ITEC 107	Industrial Maintenance 2	4	
C. ITEC 108	Industrial Maintenance 3	4	
D. ITEC 109	Industrial Maintenance 4	4	
E. WEXP 193 M	Maint Tech Wrk Exp-1st Sem	4	
F. WEXP 194 M	Maint Tech Wrk Exp-2nd Sem	4	
G. WEXP 195 M	Maint Tech Wrk Exp-3rd Sem	4	
H. WEXP 196 M	Maint Tech Wrk Exp-4th Sem	2	
	Total Major Units:	30	
3. ELECTIVES			
	Select additional degree applicable courses numbered 1-299 to achieve 60 units:	5	
	Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

Associate of Science in Landscape Management - Not for Transfer* (AS)

Division: Agriculture

This degree prepares students for entry-level employment in the field of Landscape Management through the study of landscape maintenance, turfgrass management, landscape irrigation, and integrated pest management. Students will acquire skills in pruning, planting and fertilizing trees and shrubs, monitoring for pests and diseases, application of pesticides, sprinkler installation and repair, and maintaining turfgrass.

PROGRAM OUTCOMES:

- Exhibit appropriate installation and cultural management practices for an aesthetically pleasing landscape.
- Communicate with the public and colleagues utilizing a variety of communication methods.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: landscape installation and maintenance, equipment and supply sales, turf management, pesticide applicator, landscape water auditor, and parks maintenance personnel.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
 Note: Required Major courses that may double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. AGMT 102 Ag Sales and Marketing	3	
B. AGMT 108 Ag Business Computer Apps	3	
C. OH 001 Basic Ornamental Horticulture	3	
D. OH 002 Plant Identification 1	3	
E. OH 109 Landscape Maintenance	3	
F. OH 210 Turfgrass Management	3	
G. OH 217 Landscape Irrigation	3	
H. OH 220 Diseases of Ornamentals	3	
I. OH 222 Pests of Ornamentals	3	
J. WEXP 193 F Agriculture Wrk Exp-1st Sem	3	
Total Required Units:	30	
 3. Select additional degree applicable courses numbered 1-299 to achieve 60 units:		
Total Units:	60	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

Associate of Arts in Liberal Arts with an Area of Emphasis in Arts and Humanities - Not for Transfer* (AA)

Division: Student Services

This degree provides an opportunity for students who are not intending to transfer to a four-year university to earn an Associate of Arts Degree with an area of emphasis in Arts and Humanities. This degree is designed to provide an introductory foundation in the arts and humanities and to prepare students for life in the global community by developing a core of knowledge, skills, and attitudes essential for personal and professional success. The curriculum emphasizes the study of cultural activities and artistic expressions of human beings. Students will develop an awareness of the ways in which people throughout the ages and in different cultures have expressed themselves and responded to the world around them in artistic and cultural creation. Students will also develop aesthetic understanding and an ability to make value judgments.

PROGRAM OUTCOMES:

- Demonstrate the ability to critically evaluate human esthetic expression by applying knowledge of cultural and artistic differences.
- Relate the impact of artistic creation to the development of modern civilization.

CAREER OPPORTUNITIES: Research Assistant, Studio Artist, Studio Craftsperson, Illustrator, Concept Artist, Museum Curator, Editor, Journalist, Photographer.

1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:

- A. College of the Sequoias' Associate Degree General Education (COS-GE) 25 units
2. Complete a minimum of 18 units with a "C" grade or better from the following courses. Courses used to fulfill the general education requirements listed above may be counted as part of this 18-unit minimum.

AJ 123
 ARCH 010, 020, 070, 071
 ART 001, 002, 003, 004, 005, 006, 007, 008, 111
 ASL 001, 002, 003, 004
 BUS 185
 CINA 031, 032,
 DRAM 001, 002, 003, 006
 ENGL 004, 010, 015, 016, 018, 019, 030, 031, 044, 045, 046
 ETHN 001, 002, 003, 004
 HIST 025
 LING 111
 MUS 001, 010, 011, 013, 014
 OH 111
 PHIL 001, 005, 012, 013, 014
 PORT 001, 002
 SPAN 001, 002, 003, 004, 012, 022, 023

3. Select additional degree applicable courses numbered 1-299 to achieve 60 units.

Total Units: 60

The Associate of Arts in Liberal Arts with an Area of Emphasis requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

Associate of Arts in Liberal Arts with an Area of Emphasis in Communications - Not for Transfer* (AA)

Division: Student Services

This degree provides an opportunity for students who are not intending to transfer to a four-year university to earn an Associate of Arts Degree with an area of emphasis in Communication Studies. This degree is designed to provide an introductory foundation in communication studies and to prepare students for life in the global community by developing a core of knowledge, skills, and attitudes essential for personal and professional success. The curriculum emphasizes the principles and applications of language toward logical thought, clear and precise expression, and critical evaluation of communication in whatever symbol system used. Students will learn to read, listen, speak, and write effectively, and will acquire the ability to distinguish fact from judgment, and belief from knowledge.

PROGRAM OUTCOMES:

- Construct clear and precise arguments using appropriate analytic tools.
- Relate the importance of logical thought to effective communication.
- Apply interpersonal skills to enhance communication.

CAREER OPPORTUNITIES: Copy Writer, Sales, Advertising Specialist, Fund Raiser, Communication Trainer, Customer Service Representative, Technical Writer, Community Affairs Liaison, Program Coordinator, Public Information Assistant.

1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:

- A. College of the Sequoias' Associate Degree General Education (COS-GE) 25 units
2. Complete a minimum of 18 units with a "C" grade or better from the following courses. Courses used to fulfill the general education requirements listed above may be counted as part of this 18-unit minimum.

AJ 025
 BUS 020, 112, 119
 COMM 001, 004, 005, 007, 008, 112
 COMP 005, 006
 ENGL 001, 002
 JOUR 007
 MATH 010, 021, 065, 070, 154
 PHIL 020, 025
 SSCI 025

#BUS 112 is the same as COMM 112

3. Select additional courses numbered 1-299 to achieve 60 units.

Total Units: 60

The Associate of Arts in Liberal Arts with an Area of Emphasis requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

Associate of Arts in Liberal Arts with an Area of Emphasis in Health and Physical Education - Not for Transfer* (AA)

Division: Student Services

This degree provides an opportunity for students who are not intending to transfer to a four-year university to earn an Associate of Arts Degree with an area of emphasis in Health and Physical Education. This degree is designed to provide an introductory foundation in health and physical education and to prepare students for life in the global community by developing a core of knowledge, skills, and attitudes essential for personal and professional success. The health and nutrition courses emphasize practical and theoretical knowledge necessary for maintenance of physical and mental health. The physical education and intercollegiate athletics courses provide students the opportunity to develop active and healthy life styles.

PROGRAM OUTCOMES:

- Evaluate behaviors that promote health and wellbeing.
- Relate the impact of physical and mental health to living a fulfilling life.
- Identify and appraise a variety of career paths within the field of health and nutrition.

CAREER OPPORTUNITIES: Camp Counselor, Campground Attendant, Outdoor Activity Leader, Outdoor Recreation, Assistant, Tour Guide, Assistant Community Education Worker.

1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:

- A. College of the Sequoias' Associate Degree General Education (COS-GE) 25 units

2. Complete a minimum of 18 units with a "C" grade or better from the following courses. Courses used to fulfill the general education requirements listed above may be counted as part of this 18-unit minimum.

A minimum of 9 units from the following health and wellness courses:

HW 001, 003, 007, #060, 104, #119
 NUTR 018, #119
 SMED 040, #060

A minimum of 9 units from the following physical education courses:

PEAC Courses:

PEAC 001, PEAC 002, PEAC 003, PEAC 004, PEAC 008, PEAC 009, PEAC 010, PEAC 011, PEAC 015, PEAC 017, PEAC 021, PEAC 022, PEAC 025, PEAC 026, PEAC 036, PEAC 037, PEAC 038, PEAC 039, PEAC 042, PEAC 052, PEAC 053, PEAC 056, PEAC 060, PEAC 061, PEAC 064, PEAC 065, PEAC 068, PEAC 069, PEAC 070, PEAC 071, PEAC 074, PEAC 075, PEAC 076

IA Courses:

IA 001AD, IA 002AD, IA 003AD, IA 006AD, IA 007AD, IA 008AD, IA 010AD, IA 011AD, IA 012AD, IA 016AD, IA 023AD, IA 024AD, IA 029AD, IA 030AD, IA 031AD, IA 032AD, IA 047AD, IA 049AD

#HW 060 same as SMED 060; HW 119 same as NUTR 119

3. Select additional courses numbered 1-299 to achieve 60 units.

Total Units: 60

The Associate of Arts in Liberal Arts with an Area of Emphasis requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

Associate of Arts in Liberal Arts with an Area of Emphasis in Natural Science - Not for Transfer* (AA)

Division: Student Services

This degree provides an opportunity for students who are not intending to transfer to a four-year university to earn an Associate of Arts Degree with an area of emphasis in Natural Sciences. This degree is designed to provide an introductory foundation in the natural sciences and to prepare students for life in the global community by developing a core of knowledge, skills, and attitudes essential for personal and professional success. The curriculum emphasizes experimental methodology, testing hypotheses, and the power of systematic questioning. Students will develop a comprehension of the basic concepts of physical and biological sciences, and a sophisticated understanding of science as a human endeavor, including the limitations as well as the power of scientific inquiry.

PROGRAM OUTCOMES:

- Apply the principles of the scientific method to problem solving and planning.
- Describe the impact of humanity to the current state of the biosphere.
- Demonstrate the use of mathematics in predicting physical phenomena.

CAREER OPPORTUNITIES: Teacher's Aide, Lab Assistant, Engineering Technician, Environmental Health Aid, Nuclear Medical Technologist.

1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:

- A. College of the Sequoias' Associate Degree General Education (COS-GE) 25 units

2. Complete a minimum of 18 units with a "C" grade or better from the following courses. Courses used to fulfill the general education requirements listed above may be counted as part of this 18-unit minimum.

AG 002, 003, 004

ANTH 011

ASTR 010

BIOL 001, 002, 020, 021, 022, 025, 030, 031, 040

CHEM 001, 020, 030

GEOG 001

GEOL 001, 004, 012

MET 001

NUTR 018

PHYS 055, 020

PLSI 001

PSCI 020

3. Select additional courses numbered 1-299 to achieve 60 units.

Total Units:

60

The Associate of Arts in Liberal Arts with an Area of Emphasis requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

Associate of Arts in Liberal Arts with an Area of Emphasis in Social and Behavioral Science - Not for Transfer* (AA)

Division: Student Services

This degree provides an opportunity for students not intending to transfer to a four-year university to earn an Associate of Arts Degree with an area of emphasis in Social Sciences. This degree is designed to provide an introductory foundation in the social sciences and to prepare students for life in the global community by developing a core of knowledge, skills, and attitudes essential for personal and professional success. The curriculum allows students to gain a basic knowledge of the culture and social organizations in which they exist as well as the behavior and social organizations of other human societies. Students will develop an understanding of the perspectives and methods of the social and behavioral sciences.

PROGRAM OUTCOMES:

- Apply the principles of psychology to predict the behavior of a society.
- Describe the role of human behavior in social organizations.
- Apply the scientific method to problem solving in the social sciences.

CAREER OPPORTUNITIES: Teacher's Aide, Social Services Intake Specialist, Social Security Case Manager, Entry Level Social Services Worker, Child Interview Specialist

1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:

- A. College of the Sequoias' Associate Degree General Education (COS-GE) 25 units
2. Complete a minimum of 18 units with a "C" grade or better from the following courses. Courses used to fulfill the general education requirements listed above may be counted as part of this 18-unit minimum.

AG 001; AGMT 1
 AJ 011, 025, 045, 114
 ANTH 010, 012
 BUS 188
 CFS 080
 CHLD 039, 042, 158
 COMM 009
 ETHN 001, 002, 003, 004, 005
 ECON 025, 040, 050
 GEOG 002
 HIST 004, 005, 017, 018, 023, 025
 JOUR 007, 020
 NUTR 020
 PSY 001, 005, 010, 034, 133
 SOC 001, 002, 026, 043
 SSCI 036
 POLS 005, 006, 008

3. Select additional courses numbered 1-299 to achieve 60 units.

Total Units:

60

The Associate of Arts in Liberal Arts with an Area of Emphasis requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

Associate of Science in Ornamental Horticulture - Not for Transfer* (AS)

Division: Agriculture

This degree prepares students for entry-level employment in the field of Ornamental Horticulture through the study of plant health, identification, sales, and marketing. Students will acquire skills in propagation, cultural care and sales of ornamental plants in a nursery setting.

PROGRAM OUTCOMES:

- Prepare appropriate growth media and utilize common horticultural techniques and practices to propagate and produce ornamental plants in containers.
- Demonstrate effective oral and written communication skills.
- Describe and demonstrate the safe and efficient use of tools, equipment and materials commonly used in ornamental horticulture and nursery management.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: plant propagators, greenhouse managers, nursery foremen, and pesticide applicators.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses that double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. AG 200 Agriculture Leadership	1	
B. AGMT 102 Agriculture Sales and Marketing	3	
C. AGMT 108 Ag Business Computer Apps	3	
D. OH 001 Basic Ornamental Horticulture	3	
E. OH 002 Plant Identification 1	3	
F. OH 003 Plant Identification 2	3	
G. OH 105 Plant Propagation	3	
H. OH 204 Nursery & Greenhouse Productn.	3	
I. OH 220 Diseases of Ornamentals	3	
J. OH 222 Pests of Ornamentals	3	
K. WEXP 193 F Agriculture Wrk Exp-1st Sem	3	
Required Courses Units:	31	

(continued on next page)

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

Associate of Science in Ornamental Horticulture - Not for Transfer* (AS)

Division: Agriculture

(continued from previous page)

	Units	COS-GE AREA
3. RESTRICTED ELECTIVES		
(Select 6 units from the following:)		
AG 004 Soil Science	3	
OH 007 Principles of Landscape Design	3	
OH 109 Landscape Maintenance	3	
OH 206 Landscape Drafting	3	
OH 208 Landscape Construction	3	
OH 210 Turfgrass Management	3	
OH 217 Landscape Irrigation	3	
OH 218 Xeriscape: Water Conservation	3	
Restricted Electives Units:	6	
Total Required and Restricted Units:	37	
Total Units:	62	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

Associate of Science in Paralegal - Not for Transfer* (AS)

Division: Business

This degree prepares students for entry-level employment and/or potential further study in the field of Paralegal through the study of record keeping, brief writing, law office, legal research, drafting documents, and preparing evidence through the study of legal terminology, legal ethics, legal research, family law, and legal writing. Students will acquire skills for legal writing and research along with business law knowledge.

PROGRAM OUTCOMES:

- Use the legal research program lexis.com to conduct legal research and locate legal authority to draft and write a motion.
- Use the legal research program lexis.com, as well as the resources available in the COS library, to conduct legal research and locate legal authority to draft and write an internal office memorandum of law.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: paralegal, legal secretary, legal document assistant, and lawyer assistant.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Note: Required Major courses and Restricted Elective that double count for specific COS-GE AREAs are designated in the COS-GE column.		
2. REQUIRED MAJOR COURSES:		
A. BUS 184	3	Business Communications
B. BUS 271	3	College Keyboarding Level 2
C. BUS 293	4	Business English
D. PARA 101	3	Intro to Paralegalism
E. PARA 102	2	Legal Terminology
F. PARA 203	4	Civil Procedures 1
G. PARA 204	3	Civil Procedures 2
H. PARA 205	4	Legal Research and Writing
I. PARA 210	3	Legal Ethics, Mgt & Interview
J. WEXP 193 P	1-2	Paralegal Wrk Exp-1st Sem
	30-31	Required Courses Units:

(continued on next page)

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 0-3 units may double count above in 1A (COS-GE).

Associate of Science in Paralegal - Not for Transfer* (AS)

Division: Business

(continued from previous page)

	Units	COS-GE AREA
3. RESTRICTED ELECTIVES: (Select a minimum of 10 units from the following)		
AJ 014 Criminal Law 1	3	
AJ 025 Constitutional Law	3	A2
AJ 112 Legal Aspects of Evidence	3	
AJ 115 Criminal Law 2	3	
BUS 018 Business Law	4	
PARA 232 Wills, Trusts and Elder Law	2	
PARA 233 Probate Procedures	3	
PARA 236 Administrative Law	3	
PARA 237 Family Law	3	
WEXP 194 P Paralegal Wrk Exp-2nd Sem	1-2	
Restricted Electives Units:	10	
Total Required and Restricted Units	40-41	
5. ELECTIVES:		
Select additional degree applicable courses numbered 1-299 to achieve 60 units:	0	
Total Units:	62-66	

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 0-3 units may double count above in 1A (COS-GE).

Associate of Science in Physical Therapist Assistant - Not for Transfer* (AS)

Division: Nursing and Allied Health

This degree prepares students for entry-level employment and/or potential further study in the field of Physical Therapist Assistant through the study of kinesiology, principles of patient management, modalities, pathophysiology, orthopedic management and clinical education. Students will acquire skills in the scope of a physical therapist assistant. This degree allows graduates to take the California State PTA license examination.

PROGRAM OUTCOMES:

- Pass the NPTE/PTA Licensing Examination.
- Demonstrate competence in cognitive, psychomotor and affective domain to provide physical therapy services under the direction of a physical therapist.
- Adhere to professional behaviors set by the APTA's Code of Ethics.
- Demonstrate patient safety at all times.
- Achieve a successful transition to employment as a PTA.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: acute care hospitals, skilled nursing facilities, outpatient rehabilitation clinics, inpatient rehabilitation centers, school based health care services.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
NOTE: Required courses that double count for specific COS GE AREAs are designed in the COS GE column. Students earning a degree in Physical Therapy Assistant are exempt from the 2-unit PE subject requirement and the 1-unit Information Competency requirement.		
2. PREREQUISITES COURSES:		
BIOL 030 Human Anatomy	4**	B
BIOL 031 Human Physiology	4	
3. REQUIRED MAJOR COURSES:		
A. PTA 121 Fundamentals for the PTA	2	
B. PTA 125 Basic Prin of Patient Mgmt	3	
C. PTA 128 Kinesiology	3	
D. PTA 131 Engineering & Physics for PTA	1	
E. PTA 130 Physical Agents and Modalities	3	
F. PTA 139 Pathophysiology	2	
G. PTA 140 Administration	1	
H. PTA 148 Orthopedic Management	3	
I. PTA 150 Clinical Education 1	3	
J. PTA 145 Neurorehabilitation for PTA	3	

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The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Science in Physical Therapist Assistant - Not for Transfer* (AS)

Division: Nursing and Allied Health

(continued from previous page)

		Units	COS-GE AREA
K. PTA 152	Cardiopulmonary Rehabilitation	3	
L. PTA 155	Therapeutic Exercise	4	
M. PTA 160	Clinical Education 2	5	
N. PTA 161	Clinical Education 3	6	
O. PTA 170	Seminar for PTA	1	
	Total Required Units:	43	
	Total Units:	70	

Physical Therapist Assistant Program Admission Criteria:

- Cumulative GPA of 2.5 or higher
- 2.5 or higher GPA on combined biology prerequisites: BIOL 030 (Anatomy) 4 semester units including a lab component; BIOL 031 (Physiology) 4 semester units including a lab component
- A minimum grade of "C" in all prerequisite courses is required. Please be advised that a "C" in all prerequisite courses does not meet the 2.5 minimum GPA requirements.
- No more than one repetition of any biology course is allowed. Ws count as a repeat.

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 3 units may double count above in 1A (COS-GE).

Associate of Science in Registered Nursing - Not for Transfer* (AS)

Division: Nursing & Allied Health

This degree prepares students for entry-level employment and/or potential further study in the field of Registered Nursing through the study of biological, behavioral, and physical sciences. Students will acquire critical thinking, effective communication, physical assessment, and cultural competence skills and abilities.

PROGRAM OUTCOMES:

- Demonstrate a caring approach that validates the worth and dignity of the client through the effective use of interpersonal processes.
- Effectively integrate written, verbal, and nonverbal communication modalities in complex client and health team interaction.
- Employ critical thinking in applying the nursing process to manage client care.
- Apply principles of growth, development, and adaptation that will result in optimal wellbeing.
- Implement principles of health teaching when promoting wellness.
- Apply legal, ethical, and professional practices while acting as client advocate in providing nursing care to a diverse population.
- Satisfactorily perform the psychomotor skills necessary in the delivery of nursing care to clients across the life span.
- Safely perform nursing care to assist the client to promote, maintain, or restore an optimal level of wellbeing.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: acute care, home care, long-term care, physicians' offices, public and private facilities, and specialty units (intensive care, geriatrics, dialysis, operating room, etc.). A career ladder exists: CNA to LVN to RN to BSN to MSN. High school preparation for Nursing should include a good foundation in math, science and English.

	Units	COS-GE AREA
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:		
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25	
Required major courses that may double count for specific COS-GE Areas are designated in the COS-GE column. Students earning a degree in Registered Nursing are exempt from the 2-unit PE subject requirement and the 1-unit Information Competency requirement.		
2. RN Program Prerequisites		
All courses and the TEAS Exam must be completed PRIOR to application to the RN Program.		
BIOL 030	4**	B
BIOL 031	4	
BIOL 040	4	
ENGL 001	4**	A1
TEAS Exam with a score of 62% or higher		
RN Program Prerequisite Units:	16	
3. Co-requisite Courses		
Recommended for completion prior to entering RN Program		
COMM 001	3**	A2
or COMM 004	3	
or COMM 008	3	
PSY 001	3**	D
SOC 001	3	
or ANTH 010	3	
or NURS 106	3	
Co-requisite Courses Units:	9	

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The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 13 units may double count above in 1A (COS-GE).

Associate of Science in Registered Nursing - Not for Transfer* (AS)

Division: Nursing & Allied Health

(continued from previous page)

Note: Traditional students need to complete #s 4, 5, 6, & 7 below. Advanced placement students need to complete #8 below.

	Units	COS-GE AREA
4. Required Courses: 1st Semester		
A. NURS 161 Maintaining Optimal Wellness	11	
Required Courses: 1st Semester Units	11	
5. Required Courses: 2nd Semester		
A. NURS 151 Intro Promote & Restore Wellness	3	
B. NURS 152 Promoting Perinatal Wellness	4	
C. NURS 154 Promoting Mental Wellness	4	
Required Courses: 2nd Semester Units	11	
6. Required Courses: 3rd Semester		
A. NURS 153 Promoting Pediatric Wellness	4	
B. NURS 163 Promote and Restore Wellness 1	6	
Required Courses: 3rd Semester Units	10	
7. Required Courses: 4th Semester		
A. NURS 164 Promote and Restore Wellness 2	8	
B. NURS 166 Nursing Leadership	3	
Required Courses: 4th Semester Units	11	
Total Major Units:	43	
8. Nursing courses the advanced placement students will take after admission into the program:		
NURS 151 Intro Promote & Restore Wellness	3	
NURS 154 Promoting Mental Wellness	4	
NURS 163 Promote and Restore Wellness 1	6	
NURS 164 Promote and Restore Wellness 2	8	
NURS 166 Nursing Leadership	3	
Required Courses for Advanced Placement students:	24	
Total Units:	77	

Students who anticipate continuing their education for a BSN (Bachelor of Science in Nursing) are strongly encouraged to take CHEM 020 and NUTR 018.

Students should be advised that this program requires 80 units or more. Applicants will be subjected to background checks and drug screenings.

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer. **Courses meet General Education requirements and 13 units may double count above in 1A (COS-GE).

Associate of Science in Welding - Not for Transfer* (AS)

Division: Industry & Technology

This degree prepares students for entry-level employment in the field of Welding through the study of fabrication, metal transfer and the use of different shielding gases. Students will acquire skills in metallurgy, blueprint design and creation, multi-position metal transfer, well-joint design and application, and basic material science.

PROGRAM OUTCOMES:

- Adjust, operate and troubleshoot shielded metal arc welding, gas welding, gas tungsten arc welding, oxyfuel welding and cutting apparatuses to industry standards.
- Choose the correct joint prep process for the weld metal joints and complete that joint prep to industry standards.
- Perform groove, lap, fillet and seam welds using SMAW, GTAW and OFW apparatuses to industry standards.
- Produce simple effective orthographic drawings used for cutting, fit-up and welding of metal weldments. These drawings shall include the use of the American Welding Society welding symbols. All drawings shall be done to industry standards.

CAREER OPPORTUNITIES: Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: industrial arts, agriculture technology, agriculture systems and fabrication.

	Units
1. GENERAL EDUCATION AND SUBJECT REQUIREMENTS:	
A. College of the Sequoias' Associate Degree General Education (COS-GE)	25
Note: Required Major courses and Restricted Elective that double count for specific COS-GE AREAs are designated in the COS-GE column.	
2. REQUIRED MAJOR COURSES:	
A. AGTC 210 Ag Project Construction	3
or WELD 276 Metal Fabrication)	3
B. WELD 161 Oxyacetylene Welding	4
C. WELD 162 Shielded Metal Arc Welding	4
D. WELD 171 Specialty Metals Welding	4
E. WELD 172 Gas Tungsten Arc Welding	4
F. WELD 181 Blueprint Reading/Metallurgy	3
G. WEXP 193 F Agriculture Wrk Exp-1st Sem	1
Total Required Units:	23
3. Restricted Electives	
Select a minimum of four units from the following list:	
WELD 105 Metalcraft Welding/Forging	3
WELD 107 Forging and Wrought Iron	2
WELD 175 Metal Working for Engineers	2
WELD 273 Stainless Steel Weld/Repair	4
WELD 274 Aluminum Welding	4
WELD 275 Welding Codes/Certification	4
AGTC 212 Welding Power Sources/Applicat	1
Total Restricted Units:	4
4. Electives:	
Select additional degree applicable courses numbered 1-299 to achieve 60 units:	8
Total Units:	60

The Associate Degree requirements include completion of the 1) required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Business Division Chair), 2) General Education requirements, 3) subject requirements including PE, Health & Wellness, and American Institutions, 4) and a minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see **Major and Certificate Requirements** section for additional detail).

*The degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

Certificates Achievement/Skill



Certificates of Achievement

Eighteen (18) or more units

Prepare students for high level of competency for work in a business or industry

Require a minimum of 18 units in the vocational area and do not require general education courses

Skill Certificates

Seventeen and a half (17.5) or fewer units

Prepare students for entry-level employment opportunities in a business or industry

Skill Certificates may not qualify for financial aid eligibility

(See Appendix, page 196) for additional certificate information.)

Certificate of Achievement in Accounting

Division: Business

This certificate prepares students for entry-level employment in the field of Accounting. Students completing this certificate will acquire entry-level employment skills also in the fields of bookkeeping and office management. Students will acquire a complete understanding of computerized accounting systems and how to record the financial transactions of business. They will be able to prepare and analyze a business's financial statements and work with the company's internal and external accounting staff and advisors. They will have the ability to prepare individual income tax returns for California residents.

PROGRAM OUTCOMES:

- Accurately prepare an individual income tax return (Form 1040).
- Show proficiency in financial statement analysis.
- Accurately analyze, interpret, and record business transactions.
- Accurately record and retrieve company financial transactions and statements in a computerized bookkeeping program.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: accounts payable clerk, accounts receivable clerk, income tax preparer, staff accounting assistant, assistant bookkeeper, and bookkeeper.

	Units
1. REQUIRED CERTIFICATE COURSES:	
A. ACCT 001 Financial Accounting	4
B. ACCT 002 Managerial Accounting	4
C. ACCT 210 Computer Accounting	3
D. ACCT 282 Individual Income Tax	5
E.. COMP 138 Spreadsheet for Business	3
Required Certificate Units:	19
 2. RESTRICTED ELECTIVES - List A:	
Select a minimum of 3 units from the following:	
BUS 020 Business Statistics	3
BUS 119 Quantitative Methods	3
BUS 295 Business Mathematics	3
Restricted Electives - List B Units:	3
 3. RESTRICTED ELECTIVES - List B:	
Select a minimum of 9 units from the following:	
BUS 100 Career Strategies	3
BUS 185 Ethics in Business & Industry	3
BUS 188 Human Relations in Business	3
BUS 268 Electronic Calculating	2
BUS 297 Personal Finance	3
BUS 082 Introduction to Business	3
Restricted Electives - List C Units:	9
Total Certificate Units:	31

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Business Division Chair.

Skill Certificate in Adobe Illustrator

Division: Industry and Technology

Students completing this certificate will acquire knowledge and skills related to creating and appraising graphic design applications and integrated graphics utilizing the computer software Adobe Illustrator.

PROGRAM OUTCOMES:

At the end of this program, students will be able to create and appraise graphic designs (2D and 3D) related to graphic design applications and integrated graphics utilizing the Adobe Illustrator computer program.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: Graphic Artist.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. GD 159	Adobe Illustrator	2
B. GD 160	Graphic Design	4
C. GD 162	Integrated Graphics	4
Total Certificate Units:		10

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Adobe InDesign

Division: Industry and Technology

Students completing this certificate will acquire knowledge and skills related to creating and appraising integrated graphics and digital mechanicals utilizing the computer software Adobe InDesign.

PROGRAM OUTCOMES:

At the end of this program, students will create and appraise graphic designs (2D and 3D) related to integrated graphics and digital mechanicals utilizing the Adobe InDesign computer program.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: Graphic Artist or Production Artist.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. GD 162	Integrated Graphics	4
B. GD 163	Adobe InDesign	3
Total Certificate Units:		7

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Adobe PhotoShop

Division: Industry and Technology

This certificate prepares students for entry-level employment in the field of Adobe PhotoShop. Students completing this certificate will acquire knowledge and skills related to creating and appraising graphic design applications and integrated graphics utilizing the computer software Adobe PhotoShop.

PROGRAM OUTCOMES:

At the end of this program, students will be able to create and appraise graphic designs (2D and 3D) related to graphic design applications and integrated graphics utilizing the Adobe PhotoShop computer program.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: Graphic Artist or Digital Imager.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. GD 161	Graphic Design Applications	4
B. GD 162	Integrated Graphics	4
C. ART 025	Digital Imaging for Artists	3
Total Certificate Units:		11

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Agricultural Business Management

Division: Agriculture

This certificate prepares students for entry-level employment in the field of Agricultural Business Management. Students completing this certificate will acquire social media, web design, agriculture communications, agriculture accounting and principles of sales, marketing and management skills.

PROGRAM OUTCOMES:

- Communicate effectively in the agricultural business environment.
- Use agribusiness management principles to actively contribute to the industry.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: agriculture and retail sales, agriculture bookkeeper, marketing assistant, farm and ranch manager assistant.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	AGMT 001 Agriculture Economics	3
B.	AGMT 102 Ag Sales and Marketing	3
C.	AGMT 103 Introduction to Agricultural Management	3
D.	AGMT 104 Agriculture Accounting	3
E.	AGMT 108 Ag Business Computer Apps	3
F.	WEXP 193 F Agriculture Wrk Exp-1st Sem	3
Total Certificate Units:		18

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Skill Certificate in Agriculture Power Equipment Technician

Division: Agriculture

Students completing this certificate will acquire a basic level training for an agriculture power equipment technician, including diagnostics, repair and service of agriculture and industrial equipment.

PROGRAM OUTCOMES:

- Perform diagnostic parts schedule and repair.
- Adjust, tune, measure and perform all diagnostic tests as prescribed by equipment manufacturer.
- Ascertain and recommend and defend recommendation of equipment needed for a specific application.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: power equipment technician, service technician, small engine technician, and on-farm agriculture repair and operation.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	AGTC 103 Farm Power	3
B.	AGTC 201 Intro to Power Equipment	2
C.	AGTC 202 Farm Equipment Construction	3
D.	AGTC 225 Outdoor Power Equipment Applic	2
E.	WEXP 193 F Agriculture Wrk Exp-1st Sem	1
	Required Certificate Units:	11
2. RESTRICTED ELECTIVES: (Select at least 4 units from the following:)		
	AGTC 106 Agriculture Welding	3
	AGTC 202 Farm Equipment Construction	3
	AGMT 108 Ag Business Computer Apps	3
	AG 104 Safety in Ag Practices	1
	AG 200 Ag Leadership	1
	Restricted Electives Units:	4
	Total Certificate Units:	15

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Certificate of Achievement in Agriculture Technology

Division: Agriculture

This certificate prepares students for entry-level employment in the field of Agriculture Technology. Students completing this certificate will acquire the ability to use tools and equipment necessary for use in modern farming operations.

PROGRAM OUTCOMES:

- List and demonstrate safe work habits.
- Demonstrate and list basic engine operations, both for small and large agriculture equipment.
- Define and demonstrate basic fabrication and SMAW welding skills.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: general agriculture, sales and service of agriculture equipment, equipment manufacturing, ag mechanics and welding.

	Units
1. REQUIRED CERTIFICATE COURSES:	
A. AGTC 106 Agriculture Welding	3
B. AGTC 210 Ag Project Construction	3
C. AGTC 225 Outdoor Power Equipment Applic	2
D. WELD 162 Shielded Metal Arc Welding	4
E. WEXP 193 F Agricultural Wrk Exp-1st Sem	1
Required Certificate Units:	13
 2. RESTRICTED ELECTIVES:	
Choose a minimum of 5 from the following courses:	
AG 104 Safety in Ag Practices	1
AG 200 Ag Leadership	1
AGTC 202 Farm Equipment Construction	3
ATGC 212 Welding Power Sources/Applicat	1
AGMT 108 Ag Business Computer Apps	3
Restricted Electives Units:	5
Total Certificate Units:	18

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Certificate of Achievement in Animal Science

Division: Agriculture

This certificate prepares students for entry-level employment in the field of Animal Science. Students completing this certificate will acquire skills in animal restraint, veterinary terminology, basic animal health, care and nutrition, and livestock reproduction.

PROGRAM OUTCOMES:

- Demonstrate knowledge, practical skills and abilities in animal health and welfare, housing and environment, food products, genetics, nutrition, and reproduction to successfully work in the food animal industry.
- Identify and operate equipment and technology commonly used in the food animal industry.
- Communicate professionally both in oral and written formats demonstrating sound knowledge of the food animal industry in that communication.
- Describe and develop the necessary skills and requirements for pursuing careers in the food animal industry.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: livestock operator, animal health technician, meat inspector and/or grader, or sales and service support staff.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. AGMT 103	Intro to Agriculture business	3
B. ASCI 001	Intro to Animal Science	3
C. ASCI 003	Animal Nutrition	3
D. ASCI 110	Swine Production & Management	3
E. ASCI 111	Beef Production & Management	3
F. ASCI 112	Sheep Production & Management	3
G. WEXP 193 F	Agriculture Wrk Exp-1st Sem	3
	Required Certificate Units:	21
 2. RESTRICTED ELECTIVES:		
Select one course from the following list:		
ASCI 002	Livestock Selection/Evaluation	3
ASCI 022	Horse Husbandry	3
ASCI 104	Animal Diseases & Sanitation	3
ASCI 113	Farm Animal Biology	3
ASCI 123	Horse Production	3
	Restricted Electives Units:	3
	Total Certificate Units:	24

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Certificate of Achievement in Architectural Design

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of Architectural Design. Students completing this certificate will acquire knowledge and skills in creating and appraising architectural designs utilizing a design concept, design process, and critiques.

PROGRAM OUTCOMES:

At the end of this program, students will create and appraise architectural designs utilizing a design concept, design process, and critiques.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: Architectural Designer.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. ARCH 010	Architectural Design 1	4
B. ARCH 011	Architectural Design 2	4
C. ARCH 013	Architectural Design 3	4
D. ARCH 014	Architectural Design 4	4
Total Certificate Units:		16

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Architectural Drafting

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of Architectural Drafting. Students completing this certificate will acquire knowledge and skills in creating architectural CAD drawings.

PROGRAM OUTCOMES:

At the end of this program, students will create and analyze documents related to construction technology, i.e. computer assisted drafting/design, construction materials and methods, detailing, conceptual structural analysis, and construction documents.

ENTRY LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: Architectural CAD Technician/Draftsperson.

Architecture Department Website: www.cos.edu/architecture

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	DRFT 114 Introduction to CAD	4
B.	ARCH 160 Construction Materials/Methods	4
C.	ARCH 161 Architectural Detailing	3
D.	ARCH 162 Conceptual Structural Analysis	3
E.	ARCH 163 Construction Documents	3
Total Certificate Units:		17

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Architectural History

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of Architectural History. Students completing this certificate will acquire knowledge of architectural history from the prehistoric to the present century, including Pre-Columbian Americas.

PROGRAM OUTCOMES:

At the end of this program, students will be able to analyze and differentiate architecture history.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be able to analyze and differentiate architecture history and will be prepared for employment as an entry level architectural historian.

Architecture Department Website: www.cos.edu/architecture

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	ARCH 070 Architecture History 1	3
B.	ARCH 071 Architecture History 2	3
	Total Certificate Units:	6

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Architectural Visual Communication

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of Architectural Visual Communication. Students completing this certificate will acquire knowledge and skills in creating and distinguishing 2D and 3D visual communication drawings (tactile and digital).

PROGRAM OUTCOMES:

Create and distinguish 2D and 3D visual communication drawings (tactile and digital).

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: Architectural Renderer.

1. REQUIRED CERTIFICATE COURSES:		Units
A. ARCH 020	Visual Communication 1	3
B. ARCH 021	Visual Communication 2	3
C. ARCH 120	Freehand Drawing	3
D. ARCH 121	Perspective Alternatives	3
Total Certificate Units:		12

Architecture Department Website: www.cos.edu/architecture

Other related certificates are offered through the Drafting Technology Department.

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Architecture

Division: Industry & Technology

This certificate prepares students for entry-level employment in the fields of architecture, engineering, or in related construction fields. Students completing this certificate will acquire skills, knowledge, and abilities related to design, visual communication, computer assisted drafting, and construction technology.

PROGRAM OUTCOMES:

- Create and appraise architectural designs utilizing a design concept, design process, and critiques.
- Create and distinguish 2D and 3D visual communication drawings (tactile and digital).
- Create and analyze documents related to construction technology, i.e. computer assisted drafting/design, construction materials and methods, detailing, conceptual structural analysis, and construction documents.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: CAD Technician in architectural or engineering firms, or in related construction fields. www.cos.edu/architecture

1. REQUIRED CERTIFICATE COURSES:		Units
A. ARCH 010	Architectural Design 1	4
B. ARCH 011	Architectural Design 2	4
C. ARCH 013	Architectural Design 3	4
D. ARCH 014	Architectural Design 4	4
E. ARCH 020	Visual Communication 1	3
F. ARCH 021	Visual Communication 2	3
G. ARCH 160	Construction Materials/Methods	4
H. ARCH 161	Architectural Detailing	3
I. ARCH 162	Conceptual Structural Analysis	3
J. ARCH 163	Construction Documents	3
K. DRFT 114	Introduction to CAD	4
Total Certificate Units:		39

Architecture Department Website: www.cos.edu/architecture

Other related certificates are offered through the Drafting Technology Department.

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Autodesk AutoCAD for Architecture

Division: Industry and Technology

Students completing this certificate will acquire knowledge and skills related to creating and appraising architectural applications (2D and 3D) utilizing the Autodesk AutoCAD for Architecture computer software.

PROGRAM OUTCOMES:

Create and appraise architectural applications (2D and 3D) utilizing the Autodesk AutoCAD for Architecture computer program.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: Architectural CAD Technician/Draftsperson.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. DRFT 114	Introduction to CAD	4
B. ARCH 163	Construction Documents	3
C. ARCH 161	Architectural Detailing	3
Total Certificate Units:		10

Coursework in DRFT 114 shall be completed utilizing the Autodesk AutoCAD computer software. Coursework in ARCH 161 and ARCH 163 shall be completed using the Autodesk AutoCAD for Architecture computer software.

Architecture Department Website: www.cos.edu/architecture

Other related certificates are offered through the Drafting Technology Department.

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Autodesk AutoCAD for Drafting

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of Autodesk AutoCAD for Drafting. Students completing this certificate will acquire knowledge and skills related to creating and appraising manufacturing and industrial applications (2D and 3D), specifically AutoCAD drawings.

PROGRAM OUTCOMES:

Create and appraise manufacturing applications (2D and 3D) utilizing the Autodesk AutoCAD computer program.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: CAD Technician/Draftsperson in manufacturing or industrial fields.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. DRFT 114	Introduction to CAD	4
B. DRFT 115	Advanced CAD	4
C. DRFT 016	CAD Applications	4
Total Certificate Units:		12

Coursework in DRFT 114, DRFT 115, DRFT 016 shall be completed utilizing the Autodesk AutoCAD computer software.

Architecture Department Website: www.cos.edu/architecture

Other related certificates are offered through the Architecture Department.

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Autodesk Maya

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of Autodesk Maya. Students completing this certificate will acquire knowledge and skills related to creating and appraising digital animation utilizing the computer software Autodesk Maya.

PROGRAM OUTCOMES:

- Create and appraise digital art and 3D animations utilizing various graphic design computer programs, i.e., Autodesk Maya.
- Create and appraise graphic design and art drawings utilizing tactile (by hand) and computer (digital) techniques.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: Animator or 3D Artist.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. GD 164	Digital Animation 1	4
B. GD 165	Digital Animation 2	4
Total Certificate Units:		8

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Automotive Air Conditioning Technology

Division: Industry & Technology

Students completing this certificate will acquire skills and knowledge required to perform the service and repair of automotive air conditioning systems. Upon program completion, it is expected the student will develop employment entry level knowledge and skills necessary for the proper maintenance and repair of automotive air conditioning and heating systems.

PROGRAM OUTCOMES:

- Use the proper automotive terminology to discuss systems operation, methods of diagnosis and needed repairs.
- Prepare a written estimate of needed system repairs and estimate the related costs.
- Practice safety in the repair and service associated with electrical, hydraulic and mechanical systems.
- Demonstrate proficiency in the use of automotive diagnostic equipment to evaluate system performance and determine needed repairs.
- Describe construction components and apply the necessary skills for their respective approach to select the proper method to diagnose, repair and test automotive systems.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: automotive air conditioning electrical diagnosis, air conditioning service and recharging and air conditioning service and repair. This certificate is designed to meet national certification and training standards (NATEF) for automotive service excellence (ASE) testing and certification category (A7).

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. AUTO 130	Introduction to Automotive Technology	3
B. AUTO 136	Automotive Electrical Systems	4
C. AUTO 237	Automotive Air Conditioning	4
Total Certificate Units:		11

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Automotive Brake Systems

Division: Industry & Technology

Students completing this certificate will acquire skills and knowledge required to perform the service and repair of automotive brake systems. Upon program completion, it is expected the student will develop employment entry level knowledge and skills necessary for the proper maintenance and repair of automotive braking systems.

PROGRAM OUTCOMES:

- Use the proper automotive terminology to discuss systems operation, methods of diagnosis and needed repairs.
- Prepare a written estimate of needed system repairs and estimate the related costs.
- Practice safety in the repair and service associated with electrical, hydraulic and mechanical systems.
- Demonstrate abilities to describe construction components and apply necessary skills for their respective approach to select the proper method to diagnose, repair and test automotive systems.
- Demonstrate proficiency in the use of automotive diagnostic equipment to evaluate system performance and determine needed repairs.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: automotive brake systems diagnosis and repair, servicing and replacing worn and defective brake components and maintaining automotive brake systems for safe operation. This certificate is designed to meet national certification and training standards (NATEF) for automotive service excellence (ASE) testing and certification category (A5).

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. AUTO 130	Introduction to Automotive Technology	3
B. AUTO 136	Automotive Electrical Systems	4
C. AUTO 235	Automotive Brake Systems	4
Total Certificate Units:		11

The Skill Certificate requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Automotive Chassis Technology

Division: Industry & Technology

Students completing this certificate will acquire knowledge and skills necessary to perform factory service and repair of automotive brake systems, tire and wheel balancing, chassis alignment and suspension repair. Upon completion students will have entry-level knowledge and skills necessary for the proper maintenance, replacement, and repair of automotive brake and suspension systems.

PROGRAM OUTCOMES:

- Practice safety in the repair and service associated with electrical, hydraulic and mechanical systems.
- Describe construction components and apply necessary skills for their respective approach to select the proper method to diagnose, repair and test automotive systems.
- Demonstrate proficiency in the use of automotive diagnostic equipment to evaluate performance and determine needed repairs.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: automotive brake system diagnosis and repair, tire and wheel balancing, suspension system diagnosis and repair, and automotive chassis four-wheel alignment procedures.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. AUTO 130	Introduction to Automotive Technology	3
B. AUTO 136	Automotive Electrical Systems	4
C. AUTO 234	Auto Suspension/Steering System	4
D. AUTO 235	Automotive Brake Systems	4
Total Certificate Units:		15

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Automotive Electrical Technology

Division: Industry & Technology

Students completing this certificate will acquire skills and knowledge required to perform diagnosis, service and repair of automotive electrical and electronic systems. Upon program completion it is expected the student will develop employment entry level knowledge and skills necessary for the proper diagnosis and repair of automotive starting and charging systems, diagnosing and repair of automotive computer systems and diagnosis of automotive electrical accessories.

PROGRAM OUTCOMES;

- Use the proper automotive terminology to discuss systems operation, methods of diagnosis and needed repairs.
- Prepare a written estimate of needed system repairs and estimate the related costs.
- Practice safety in the repair and service associated with electrical, hydraulic and mechanical systems.
- Students will demonstrate abilities to describe construction components and apply necessary skills for their respective approach to select the proper method to diagnose, repair and test automotive systems.
- Demonstrate proficiency in the use of automotive diagnostic equipment to evaluate system performance and determine needed repairs.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Include, but are not limited to automotive electrical systems diagnosis and repair, servicing, diagnosing and replacing worn and defective electronic accessory components and the maintenance of automotive battery, starting and charging systems. This certificate is designed to meet national certification and training standards (NATEF) for automotive service excellence (ASE) testing and certification category (A6).

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	AUTO 130 Introduction to Automotive Technology	3
B.	AUTO 136 Automotive Electrical Systems	4
C.	AUTO 243 Auto Adv. Computer Controls	5
Total Certificate Units:		12

The Skill Certificate requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Automotive Emissions Technology

Division: Industry & Technology

Students completing this certificate will acquire skills and knowledge required by the State of California, Bureau of Automotive Repair in preparation for the automotive technician’s emissions examination for technician licensing. This certificate is required by the Bureau of Automotive Repair for all students who wish to take and pass the state emissions exam to become a licensed smog check technician.

PROGRAM OUTCOMES;

- Use the proper automotive terminology to discuss systems operation, methods of diagnosis and needed repairs.
- Prepare a written estimate of needed system repairs and estimate the related costs.
- Practice safety in the repair and service associated with electrical, hydraulic and mechanical systems.
- Demonstrate abilities to describe construction components and apply necessary skills for their respective approach to select the proper method to diagnose, repair and test automotive systems.
- Demonstrate proficiency in the use of automotive diagnostic equipment to evaluate system performance and determine needed repairs.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Include, but are not limited to, automotive emissions equipment testing, emissions equipment repairs, or emissions equipment testing and repairing. A separate state license is required for each.

NOTE: Prerequisites for this certificate are the basic Automotive Technology Certificate, or at a minimum 14 semester units from AUTO 130, 136, and 238 courses including engine electrical systems, fuel systems, emissions and engine performance areas.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. AUTO 243	Auto Adv. Computer Controls	5
C. AUTO 263	Emissions & Diagnostics Lvl 1	4
D. AUTO 264	Emissions & Diagnostics Lvl 2	2
Total Certificate Units:		11

The Skill Certificate requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Automotive Engine Technology

Division: Industry & Technology

Students completing this certificate will acquire knowledge and skills required to perform engine rebuilding services at a machine shop facility. Upon program completion, it is expected that the student will develop employment entry level skills to perform basic machine shop services.

PROGRAM OUTCOMES:

- Practice safety in the repair and service associated with electrical, hydraulic and mechanical systems.
- Describe construction components and apply necessary skills for their respective approach to select the proper method to diagnose, test and repair automotive systems.
- Demonstrate proficiency in the use of automotive diagnostic equipment to evaluate system performance and determine needed repairs.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: automotive engine block diagnosis, disassemble and repair or parts replacement and reassemble. Machining services include cylinder block cleaning, boring and honing. Cylinder machining includes surfacing of the cylinder head/s and grinding of the valves. This certificate is designed to meet national certification and training standards (NATEF) for Automotive Service Excellence (ASE) testing and certification category (A1).

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	AUTO 130 Intro to Automotive Technology	3
B.	AUTO 136 Automotive Electrical Systems	4
C.	AUTO 231 Automotive Engine Systems	4
	Total Certificate Units:	11

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Automotive Power Train Systems Technology

Division: Industry & Technology

Students completing this certificate will acquire skills and knowledge required to perform diagnosis, service and repair of automotive power and drive train systems. These systems include automatic transmissions, manual transmissions, clutch systems and differentials. Upon program completion, it is expected the student will develop employment entry level knowledge and skills necessary for proper diagnosis and repair of automotive automatic transmissions, manual transmissions, clutch systems and differentials.

PROGRAM OUTCOMES:

- Practice safety in the repair and service associated with electrical, hydraulic and mechanical systems.
- Demonstrate abilities to describe construction components and apply necessary skills for their respective approach to select the proper method to diagnose, test and repair automotive systems.
- Demonstrate proficiency in the use of automotive diagnostic equipment to evaluate system performance and determine needed repairs.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following: automotive automatic and manual transmission disassembly, repair or rebuild an assembly, diagnosis, repair or replacement of clutch assemblies, and the repair and servicing of differentials. This program is designed to meet national certification and training standards (NATEF) for Automotive Service Excellence (ASE) testing and certification category (A2), Automatic Transmissions (A3), Manual Transmissions and Differentials.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. AUTO 130	Intro to Automotive Technology	3
B. AUTO 136	Automotive Electrical Systems	4
C. AUTO 232	Auto Automatic Transmissions	4
D. AUTO 233	Automotive Power Train Systems	4
Total Certificate Units:		15

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Building Information Modeling (BIM)

Division: Industry and Technology

Students completing this certificate will acquire knowledge and skills related to architectural applications (2D and 3D), i.e., creating and appraising BIM architectural designs.

PROGRAM OUTCOMES:

- At the end of this program, students will be able to create and appraise BIM architectural designs utilizing the Graphisoft ArchiCAD computer program.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: Architectural BIM Designer.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. ARCH 013	Architectural Design 3	4
B. ARCH 014	Architectural Design 4	4
Total Certificate Units:		8

Architecture Department Website: www.cos.edu/architecture

Other related certificates are offered through the Drafting Technology Department.

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Business

Division: Business

This certificate prepares students for entry-level employment in the field of Business. Students completing this certificate will acquire preparation for entry-level employment through the study of general business, communications, math, computers, ethics, and human relations. Students will acquire skills in computer applications, keyboarding and ten-key, office management and procedures, and oral and written communications.

PROGRAM OUTCOMES:

- Communicate effectively in a business environment.
- Actively participate in the day-to-day operations of a business office.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: administration, management, human resources, finance, secretarial, and various office positions.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	BUS 082 Introduction to Business	3
B.	BUS 100 Career Strategies	3
C.	BUS 112 Public Speaking for Business	4
	or COMM 112	
D.	BUS 184 Business communications	3
E.	BUS 185 Ethics in Business & Industry	3
F.	BUS 188 Human Relations in Business	3
G.	BUS 268 Electronic Calculating	2
H.	BUS 270 College Keyboarding Level 1 (3)	
	or	
	BUS 271 College Keyboarding level 2 (3)	3
I.	BUS 293 Business English	4
J.	COMP 005 Computer Concepts (4)	
	or	
	COMP 130 Intro to Personal Computers	4
	Required Courses Units:	32
2.	RESTRICTED ELECTIVES - List A	
	Select a minimum of 3 units from the following:	
	BUS 020 Business Statistics	3
	BUS 119 Quantitative Methods	3
	BUS 295 Business Mathematics	3
	Restricted Electives - List A Units:	3
3.	RESTRICTED ELECTIVES - List B	
	Select a minimum of 3 units from the following:	
	BUS 174 Marketing Principles	3
	BUS 181 Intro to Entrepreneurship	3
	WEXP 193 I Bus & Ind Wrk Exp-1st Sem	1-4
	WEXP 194 I Bus & Ind Wrk Exp-2nd Sem	1-4
	WEXP 195 I Bus & Ind Wrk Exp-3rd Sem	1-4
	WEXP 196 I Bus & Ind Wrk Exp-4th Sem	1-4
	Restricted Electives - List B Units:	3
	Total Certificate Units:	38

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Business Division Chair.

Certificate of Achievement in Business Financial Recordkeeping

Division: Business

This certificate prepares students for entry-level employment in the field of Business Financial Recordkeeping. Students completing this certificate will acquire an understanding of computerized accounting systems and how to record the financial transactions of business. They will be able to assist their supervisors in the preparation and analysis of a business’s financial statements and work with the company’s internal and external accounting staff and advisors.

PROGRAM OUTCOMES:

- Knowledge of the operations of computerized accounting systems and how to record the financial transactions of business.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: banking, credit unions, bookkeeping, office management, and other financial institutions.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	ACCT 210 Computer Accounting	3
B.	BUS 268 Electronic Calculating	2
C.	BUS 297 Personal Finance	3
D.	COMP 138 Spreadsheet for Business	3
E.	ACCT 001 Financial Accounting	4
Required Units:		15
3. RESTRICTED ELECTIVES:		
Select a minimum of 3 units from the following:		
BUS 020	Business Statistics	3
BUS 119	Quantitative Methods	3
BUS 295	Business Mathematics	3
Restricted Electives Units:		3
Total Certificate Units:		18

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Business Division Chair.

Skill Certificate in Carpentry/Millwork

Division: Industry and Technology

Students completing this certificate will acquire skills in utilizing tools of the carpentry trade, building materials identification including structural lumber, framing components, mill work, measuring and layout of building components.

PROGRAM OUTCOMES:

- Pass NCCER module tests for this program, with an 80% pass rate.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: entry-level framing, entry-level finish carpentry, entry-level millwork, retail sales of lumber, and related building materials.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. CT 220	Construction Practices 1	2.5
B. CT 221	Construction Practices 2	2.5
C. CT 250	Basic Carpentry/Const Practice	4
D. CT 260	Interior Millwork	4
Total Certificate Units:		13

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Certified Nurse Assistant

Division: Nursing & Allied Health

Students completing this certificate will acquire the knowledge and skills to care for patients experiencing physiological needs for safety and comfort, nutrition, regulatory mechanisms and mobility. Students will also utilize program-acquired knowledge and skills to care for patients' psychological needs for belongingness, communication, esteem and self respect, and provide basic nursing care to selected patients under the supervision of a Registered Nurse, Licensed Vocational Nurse or Physician.

PROGRAM OUTCOMES:

- Demonstrate a caring approach that validates the worth and dignity of the client through the effective use of interpersonal processes.
- Utilize knowledge and skills to care for clients experiencing physiological needs, including safety, privacy and comfort, nutritional, regulatory mechanisms, infection control and mobility.
- Utilize knowledge and skills to care for clients experiencing psychological needs for belongingness, communication, self esteem and self respect.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: nursing care facilities, general medical and surgical hospitals, community care facility for the elderly, and employment services.

		Units
1. REQUIRED CERTIFICATE COURSES:		
Students should be advised that an active AHA CPR card is required in order to enroll in NURS260. Criminal background checks will also be required as part of the requirements for enrollment.		
A. NURS 260	Nursing Assistant	6
	Total Certificate Units:	6

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Nursing and Allied Health Division Chair.

Skill Certificate in Child Development-Assistant

Division: Consumer/Family Studies

Students completing this certificate will acquire basic skills and knowledge leading to employment in early childhood programs. It will also provide the education required to obtain a California Child Development Permit at an assistant level.

PROGRAM OUTCOMES:

- Identify the major theories and/or principles of child development.
- Explain the requirements for CA Title 22 Licensing Regulations regarding health, safety, nutrition and mandated reporting law.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: assistant teacher or aide in private child care or early childhood program (i.e., infant/toddler, pre-school, school age); assistant teacher in licensed family child care home, foster care provider, in-home care provider.

The following courses are recommended selections.

To advance on the California Permit Matrix the suggested course are as follows:

	Units
1. REQUIRED CERTIFICATE COURSES:	
A. CHLD 039 Child Development-DS1	3
B. CHLD 042 Child, Family & Society-DS2	3
Total Certificate Units:	6

OR

To meet the Assistant Teacher level requirements, select 6 units from the following suggested courses:

C. CHLD 134 Understanding Child Abuse	3
D. CHLD 136 Literature for Young Children-DS3	3
E. CHLD 148 Child Health/Safety-DS7	3
Total Certificate Units:	6

The Skill Certificate requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Consumer Family Studies Division Chair.

Skill Certificate in Child Development: Associate Teacher

Division: Consumer/Family Studies

Students completing this certificate will acquire basic skills and knowledge leading to employment in early childhood programs. It will also provide the education required to obtain a California Child Development permit at an associate level.

PROGRAM OUTCOMES:

- Identify the major theories and/or principles of child development.
- Complete lab experience needed for employment in a licensed child care facility at an approved site.
- Explain the requirements for CA Title 22 Licensing Regulations regarding health, safety, nutrition and the mandated reporting law.
- Complete 45 hours of lab experience needed for employment in a licensed child care facility at an approved site.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: associate teacher or aide in private child care or early childhood programs (i.e., infant/toddler, pre-school, school age, full inclusion); associate teacher or aide working with children with special needs, Early Intervention Assistant I, licensed family child care home, foster care provider, in-home care provider.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	CHLD 039 Child Development-DS1	3
B.	CHLD 042 Child, Family & Society-DS2	3
C.	CHLD 140 Principles of ECE-DS3	3
D.	CHLD 148 Child Health/Safety-DS7	3
Total Certificate Units:		12

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Consumer Family Studies Division Chair.

Certificate of Achievement in Child Development-Teacher

Division: Consumer/Family Studies

This certificate prepares students for entry-level employment in the field of early childhood education programs. Students completing this certificate will acquire academic knowledge based on child development theory and best practices in early care and education. Students gain skills and lab experience that orient them into the field of early childhood care and education providing the opportunity to develop skills and abilities to be successful in the workforce. It will also provide the education required to obtain a California Child Development permit at a teacher or site supervisor level.

PROGRAM OUTCOMES:

- Identify and analyze the major theories and/or principles of child development.
- Complete lab experience needed for employment in a licensed child care facility at an approved site.
- Explain the requirements for CA Title 22 Licensing Regulations regarding health, safety, nutrition and mandated reporting law.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: teacher, master teacher, mentor teacher or site supervisor in early childhood programs (i.e., infant/toddler, pre-school, school age, full inclusion); preschool director in a Title 22 child care center, associate teacher or aide working with children with special needs, Early Intervention Assistant II, Child Development Specialist for Resource and Referral Program, Para Educator (Title I Schools), Family Support Services Worker (Home Base).

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	CHLD 039 Child Development-DS1	3
B.	CHLD 042 Child, Family and Society-DS2	3
C.	CHLD 126 Observation and Assessment-DS3	3
D.	CHLD 140 Principles of ECE-DS3	3
E.	CHLD 141 Practices in ECE-DS3	3
F.	CHLD 148 Child Health/Safety-DS7	3
G.	CHLD 149 Creative Curriculum for Young Children-DS3	3
H.	CHLD 158 Cultural Diversity in ECE-DS3	3
	Total Certificate Units:	24

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Consumer Family Studies Division Chair.

Skill Certificate in CISCO CCNA Academy

Division: Industry and Technology

Students completing this certificate will acquire the ability to design, support, and analyze LAN and WAN networks, program routers, switches, and troubleshoot and repair components.

PROGRAM OUTCOMES:

- Identify, research, and report on the installation, use, and troubleshooting of CISCO networking components.
- Load, configure, and troubleshoot operating systems, server software, application software, device updates and upgrades, and network troubleshooting, maintenance, and configuration utilities.
- Safely build, maintain, repair, and upgrade CISCO networks.
- Work in a group to research solutions to problems in CISCO networks and be able to help others solve network problems through online information, helpdesk assistance, and personal intervention.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: Network Technician, Network Administrator, Consultant, and Network Engineer.

		Units
1. REQUIRED CERTIFICATE COURSES:		
The following courses must be taken in sequential order.		
A. ICT 221	CISCO Academy 1	4
B. ICT 222	CISCO Academy 2	4
C. ICT 223	CISCO Academy 3	4
D. ICT 224	CISCO Academy 4	4
Total Certificate Units:		16

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry and Technology Division Chair.

Certificate of Achievement in Commercial Art

Division: Fine Arts

This certificate prepares students for entry-level employment in the fields of design/commercial art, commercial printing, fine art printing, web design, illustration, digital photo imaging, digital portraiture, portrait painting, teaching, art administration, gallery management, art history, and art criticism. Students completing this certificate will acquire the ability to design AND draw, use a computer to produce art, and gain technical abilities through the study of both traditional and digital art list skills, knowledge, abilities.

PROGRAM OUTCOMES:

Create images using both traditional and digital technology.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: design/commercial art, commercial printing/fine art printing, web design, illustration, digital photo imaging, digital portraiture/portrait painting, teaching, art administration, gallery management, art history and art criticism.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	ART 001 Art Appreciation	3
B.	ART 006 Color and Design	3
C.	ART 008 Drawing Fundamentals	3
D.	ART 023 Macintosh Basics for Artists	3
E.	ART 025 Digital Imaging for Artists	3
F.	ART 111 Beginning Gallery Exhibition	3
G.	ART 176 Beginning Stone Lithography	3
	Required Certificate Units:	21
2.	RESTRICTED ELECTIVES:	
	(Select 12 additional units to complete the total units required.)	
	ART 009 Drawing Composition	3
	ART 049 Beginning Figure Drawing	3
	ART 015 Beginning Printmaking	3
	ART 121 Beginning Screen Printing	3
	ART 130 Digital Printmaking	3
	ART 177 Intermediate Stone Lithography	3
	ART 043 Beginning Studio Painting	3
	Minimum Restricted Electives Units:	12
	Total Certificate Units:	33

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Fine Arts Division Chair.

Skill Certificate in Commercial Music

Division: Fine Arts

This certificate prepares students for entry-level employment in the field of Commercial Music. Students completing this certificate will acquire necessary skills to connect and operate a variety of digital and analog audio equipment specifically related to the recording studio.

PROGRAM OUTCOMES:

- Analyze, read and write music.
- Work appropriately with music industry professionals.
- Record musicians in a professional manner.
- Manipulate Midi and Finale software successfully.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: audio technicians in a variety of environments including, but not limited to: recording studios, churches, theaters, and convention spaces.

	Units
1. REQUIRED CERTIFICATE COURSES:	
A. MUS 001 Music Fundamentals	3
B. MUS 226 Computerized Audio 1: Midi	2
C. MUS 227 Computerized Audio Prod 2	2
D. MUS 180 The Music Business	2
E. MUS 281 Recording Arts 1	2
F. MUS 282 Recording Arts 2	3
Required Certificate Units:	14
2. RESTRICTED ELECTIVES:	
(Select 3 additional units to complete the total units required.)	
MUS 020AD Piano	2
MUS 030 Beginning Voice	2
MUS 041AD Applied Music Lessons	1
MUS 034AD Concert Choir	1-2
MUS 074AD Symphonic Band	1-2
MUS 054AD Symphony Orchestra	1
MUS 010 Music Appreciation	3
MUS 014 History of Rock & Roll	3
MUS 060 Brass Musical Instruments	2
MUS 062 Woodwind Instruments	2
Minimum Restricted Electives Units:	3
Total Certificate Units:	17

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Fine Arts Division Chair.

Skill Certificate in Communication

Division: Fine Arts

Students completing this certificate will acquire skills and knowledge which include but are not limited to the following: management, planning, organization, speech writing and presentation, group and interpersonal relations, intercultural awareness, assuming responsibility, preparing reports, augmentation theories, carrying out instructions and delegating responsibilities. These important skills benefit the workplace regardless of the type of career the student chooses to pursue.

PROGRAM OUTCOMES:

Communicate effectively in group, interpersonal and intercultural settings, implementing personal responsibility, ethics and competent leadership skills

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: business, advertising, communication education, human resources, electronic media and print journalism, speech writing, advocacy, public relations government and media, and social and human services.

		Units
1. REQUIRED CERTIFICATE COURSES:		
(Select a total of 12 units from the following):		
A. COMM 001	Fundamentals/Public Speaking	3
B. COMM 004	Interpersonal Communication	3
C. COMM 005	Argumentation and Debate	3
D. COMM 007	Persuasion	3
E. COMM 008	Group Communication	3
F. COMM 009	Intercultural Communication	3
Total Certificate Units:		12

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Fine Arts Division Chair.

Skill Certificate in Computer and Network Support

Division: Industry and Technology

Students completing this certificate will acquire skills in troubleshooting of common personal computer components, applying basic computer hardware, software, and information technology concepts and techniques to a variety of business environments.

PROGRAM OUTCOMES:

- Identify, research, and report on the installation, use, and troubleshooting of common personal computer components.
- Load, configure, and troubleshoot operating systems, application software, and utility routines on a personal computer.
- Safely build, maintain, repair and upgrade personal computers.
- Work in a group to research solutions to problems in personal computers and be able to help others solve computer problems through online information, helpdesk assistance, and personal intervention.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: computer help desk specialist, network technician, and computer repair technician.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	ICT 201 A Plus Certification Prep	4
B.	ICT 202 Computer Multimedia Support	4
C.	ICT 210 Server/Network Infrastructure	4
D.	ICT 211 Server & Network Management	4
Total Certificate Units:		16

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry and Technology Division Chair.

Certificate of Achievement in Computer Applications

Division: Business

This certificate prepares students for entry-level employment in the field of Computer Applications. Students completing this certificate will acquire skills in keyboarding, word processing, spreadsheets, databases, web development, and general business.

PROGRAM OUTCOMES:

- Demonstrate competency in word processing, spreadsheets, databases, and/or web development.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: desktop publishing, web design, office assistant, accounting firm assistant, administrative assistant, and entry-level positions requiring computer application skills.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	COMM 112 Public Speaking for Business or BUS 112	4
B.	BUS 184 Business Communications	3
C.	BUS 268 Electronic Calculating	2
D.	BUS 271 College Keyboarding Level 2	3
E.	BUS 293 Business English	4
F.	COMP 133 Database processing	3
G.	COMP 135 Desktop Publishing for Bus.	4
H.	COMP 138 Spreadsheet for Business	3
I.	COMP 229 Web Page Design Development	3
	Required Courses Units:	29
2.	RESTRICTED ELECTIVES:	
	Select a minimum of 6 units from the following courses. A maximum of 3 units of Work Experience may count toward the total 6 elective units.	
	ACCT 210 Computer Accounting	3
	BUS 270 College Keyboarding Level 1	3
	or BUS 360 Elementary Keyboarding	1
	or BUS 361 Elem Keyboarding for ESL	1
	COMP 140 Computer Operating Systems	3
	COMP 220 Essential Computer Concepts	2
	COMP 227 Presentation Software	1.5
	COMP 228 Make the Most of the Internet	1
	WEXP 193 I Bus & Ind Wrk Exp-1st Sem	1-3
	WEXP 194 I Bus & Ind Wrk Exp-2nd Sem	1-3
	WEXP 195 I Bus & Ind Wrk Exp-3rd Sem	1-3
	WEXP 196 I Bus & Ind Wrk Exp-4th Sem	1-3
	Restricted Electives Units:	6
	Total Certificate Units:	35

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Business Division Chair.

Certificate of Achievement in Computer Programming & Information Systems

Division: Business

This certificate prepares students for entry-level employment in the field of Computer Programming and Information Systems. Students completing this certificate will acquire computer programming, web design, computer technical support, and database development/maintenance skills.

PROGRAM OUTCOMES:

- Manage various computer applications and programming techniques.
- Write programs based on classes.
- Write programs utilizing repetitive structures.
-

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: computer programming, web design, computer technical support, database development/maintenance, and various office positions involving computers.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	COMP 005 Computer Concepts	4
	or COMP 130 Intro to Personal Computers	4
B.	COMP 006 Programming Fundamentals	3
C.	COMP 008 programming Concepts (JAVA)	4
D.	COMP 009 Advanced Application Software	3
E.	COMP 133 Database Processing	3
F.	COMP 138 Spreadsheet for Business	3
G.	COMP 229 Web page Design & Development	3
H.	COMP 230 JAVA Script/XML	3
	Required Courses Units:	26
2.	RESTRICTED ELECTIVES: (Select a minimum of 3 units from the following):	
	BUS 271 College Keyboarding Level 2	3
	COMP 135 Desktop Publishing for Business	4
	Restricted Electives Units:	3-4
	Total Certificate Units:	29-30

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Business Division Chair.

Certificate of Achievement in Construction Inspection

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of Construction Inspection. Students completing this certificate will acquire skills in basic construction management, knowledge of basic building codes and code authority enforcement, basic concepts of building systems, construction plan reading and development, knowledge of computer programs utilized in managing construction projects and managing quality in construction.

PROGRAM OUTCOMES:

- List required site conditions, necessary documents, equipment, and necessary pre-communication in order for a building official to make a requested inspection.
- List necessary site safety practices for building officials when making inspections.
- List the major inspections involved in the construction of a residence.
- List national authority for building codes, electrical codes and fire safety codes.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: assisting construction managers, materials take-off and assisting materials estimators, drafting plans, entry-level carpenters, entry-level finish installer, entry-level concrete installers, retail sales, outside sales for building materials or services, entry level building inspector.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	CT 109 Project Management/Codes	3
B.	CT 132 Basic Building Systems/Codes	3
C.	CT 271 Life Safety for Construction	3
D.	CT 273 Electrical Codes	3
E.	CT 274 Mechanical Inspection	3
F.	CT 275 Plumbing Inspection	3
G.	CT 276 Architecture Inspection	3
H.	CT 277 Structural Inspection	3
	Required Certificate Units:	24
2. Restricted Electives		
Select 6 to 8 units from the following list:		
	CT 100 Const Draw/Design Analysis 1	4
	CT 101 Const Draw/Design Analysis 2	4
	CT 105 Computer Asst Const Theory	4
	CT 204 Construction Theory/Practice 1	4
	CT 205 Plumbing	2
	CT 261 Cabinetmaking	4
	CT 262 Cabinet and Furniture Const	4
	CT 270 Residential Wiring	3
	COMP 005 Computer Concepts	4
	Total Restricted Electives Units:	6-8
	 Total Certificate Units:	 30-32

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Construction Management

Division: Industry & Technology

Students completing this certificate will acquire skills necessary to assist a construction manager, including blueprint reading, construction site essentials, building location requirements, foundation construction, framing, roofing, electrical, plumbing, and construction documentation.

PROGRAM OUTCOMES:

- Pass NCCER module test for this program with a pass rate of 80%.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: assisting construction managers in the daily operation of construction projects with acquiring permits, supervising inspections, recording daily construction activities, tracking job schedule progression and directing subcontractors and other related construction activities, as well as controlling safety.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	CT 105 Computer Asst. Const. Theory	4
B.	CT 109 Project Management/Codes	3
C.	CT 132 Basic Building System/Codes	3
D.	CT 205 Plumbing	2
E.	CT 270 Residential Wiring	3
	Total Certificate Units:	15

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Construction Practices

Division: Industry & Technology

Students completing this certificate will acquire skills in operating hand and power tools used in the construction trades, working safely, and working cooperatively with other class participants to complete various tasks that cumulatively result in project completion. Students will learn building processes involved in erecting buildings including foundations, walls, roof structures and interior building components. Students will develop skills in building layout, measuring, transferring measurements, concrete construction, framing, roofing and finish work involved in construction practices by hands-on methodology.

PROGRAM OUTCOMES:

- Pass NCCER module test for this program with a pass rate of 80%.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following: constructing foundations, framing, roofing, drywall installation, and interior finish work. Additional opportunities include assisting construction managers, retail sales of construction materials, outside sales of construction materials and processes, and gaining experience and time credit towards acquiring a contracting license.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. CT 205	Plumbing	2
B. CT 220	Construction Practices 1	2.5
C. CT 221	Construction Practices 2	2.5
D. CT 222	Construction Practices 3	2.5
E. CT 223	Construction Practices 4	2.5
F. CT 270	Residential Wiring	3
Total Certificate Units:		15

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Construction Technology

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of Construction Technology. Students completing this certificate will acquire skills in basic construction management, knowledge of basic building codes and code authority enforcement, basic concepts of building systems, construction plan reading and development, knowledge of computer programs utilized in managing construction projects and managing quality in construction.

PROGRAM OUTCOMES:

- Describe construction components and apply necessary skills for their respective application.
- Demonstrate safe and proper methods of operation of construction-related power tools.
- Demonstrate national-level skill and competitiveness by passing accumulative testing modules NCCER (National Center for Construction Education and Research) throughout their CT coursework.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: assisting construction managers, materials take-off and assisting materials estimators, drafting plans, entry-level carpenters, entry-level finish installer, entry-level concrete installers, retail sales, outside sales for building materials or services, entry-level building inspector.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	CT 100	Const Draw & Design Analysis 1
		4
B.	CT 101	Const Draw & Design Analysis 2
		4
C.	CT 105	Computer Asst. Const. Theory
		4
D.	CT 204	Construction Theory/Practice 1
		4
E.	CT 220	Construction Practices 1
		2.5
F.	CT 221	Construction Practices 2
		2.5
G.	CT 222	Construction Practices 3
		2.5
H.	CT 223	Construction Practices 4
		2.5
I.	CT 250	Basic Carpentry/Const Practice
		4
J.	CT 260	Interior Millwork
		4
		Required Certificate Units:
		34
2. RESTRICTED ELECTIVES (Select a minimum of two courses from the following):		
	CT 109	Residential Codes and Inspect.
		3
	CT 130	Intro to Const Practices
		3
	CT 132	Basic Building System & Codes
		3
	CT 205	Plumbing
		3
	CT 261	Cabinetmaking
		4
	CT 262	Cabinet and Furniture Const.
		4
	CT 270	Residential Wiring
		3
		Restricted Elective Units:
		6-8
		Total Certificate Units:
		40-42

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Construction Theory

Division: Industry & Technology

Students completing this certificate will acquire skills in designing residential dwellings, operating CAD programs, developing computer-operated construction schedules, estimating construction materials using computer-aided spreadsheet programs, reading residential blueprints, and calculating quantities of building materials from construction plans as well as learning components of residential dwellings.

PROGRAM OUTCOMES:

- Pass NCCER module test for this program with a pass rate of 80%.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following: entry-level plan drafting, entry-level construction estimating and scheduling, assistant to construction managers, retail sales in construction-related supply businesses, assistants to residential sales managers.

1. REQUIRED CERTIFICATE COURSES:		Units
A. CT 100	Const Draw/Design Analysis 1	4
B. CT 101	Const Draw/Design Analysis 2	4
C. CT 105	Computer Asst. Const. Theory	4
D. CT 204	Construction Theory/Practice 1	4
Total Certificate Units:		16

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Dairy Science

Division: Agriculture

Students completing this certificate will acquire skills in and knowledge of dairy computer applications, dairy cattle nutrition, husbandry and breeding, and selection of cattle.

PROGRAM OUTCOMES:

- Demonstrate skills needed to successfully manage the modern dairy herd.
- Implement an effective reproductive management plan.
- Evaluate dairy cattle based upon their dairy characteristics and type and understand the selection of cattle based on reproduction and reproduction traits.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: dairy technician, dairy retail sales, dairy pharmaceutical sales, dairy breeders/assistants, dairy feeders, cattle handlers.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	AGMT 108 Ag Business Computer Apps	3
B.	DSCI 101 Introduction to Dairy Science	3
C.	DSCI 103 Commercial Dairy Herd Mgmt	3
D.	DSCI 104 Breed/Select of Dairy Cattle	3
E.	DSCI 108 Dairy Nutrition	3
F.	WEXP 193 F Agriculture Wrk Exp-1st Sem	2
Total Certificate Units:		17

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Certificate of Achievement in Dassault Systemes SolidWorks

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of Dassault Systemes SolidWorks. Students completing this certificate will acquire knowledge and skills related to creating and appraising manufacturing and industrial applications (2D and 3D), specifically AutoCAD and SolidWorks drawings.

PROGRAM OUTCOMES:

- Demonstrate the ability to effectively operate SolidWorks and AutoCad programs to create 3D assemblies.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: CAD Technician/Draftsperson in manufacturing or industrial fields.

	Units
1. REQUIRED CERTIFICATE COURSES:	
A. DRFT 114 Introduction to CAD	4
B. DRFT 115 Advanced CAD	4
C. DRFT 016 CAD Applications	4
Total Certificate Units:	12

Coursework in DRFT 114 and DRFT 115 shall be completed utilizing the Autodesk AutoCAD computer software. Coursework in DRFT 016 will be completed utilizing Dassault Systemes SolidWorks.

Architecture Department Website: www.cos.edu/architecture

Other related certificates are offered through the Architecture Department.

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in ECT Air Cond, Heating and Refrigeration Systems

Division: Industry & Technology

Students completing this certificate will acquire basic entry-level HVAC control skills and knowledge

PROGRAM OUTCOMES:

- Electrically and mechanically diagnose and/or repair any HVAC system with basic entry-level skills.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: entry level service, maintenance and installation of HVAC/R equipment.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	ECT 260 Basic Refrigeration	2
B.	ECT 261 Intro to Air Cond/Refrig C/D	2
C.	ECT 262 Heating Systems & Controls	2
D.	ECT 263 Commercial Refrig Sys Controls	2
Total Certificate Units:		8

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Emergency Medical Technician B

Division: Nursing & Allied Health

Students completing this certificate will acquire skills in recognition of symptoms of illness and/or injury and proper procedures for emergency care. Those who complete the EMT B courses are eligible to sit for the National Registry of Emergency Medical Technicians and employment by government and private emergency health care services in the area. State certification and national testing fees will apply. They are also eligible to enter Emergency Medical Technician Paramedic training, which provides opportunity for career advancement, higher pay, and greater responsibility in providing emergency health care. State certification and national testing fees will apply

PROGRAM OUTCOMES:

- Safely perform skills required by Title 22 for EMT B, to assist the client to maintain wellbeing.
- Satisfactorily perform the psychomotor skills necessary in the delivery of pre-hospital care to clients.
- Apply legal, ethical and professional practices while acting as client advocate in providing pre-hospital care.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: entry level positions with ambulance companies and in hospital emergency rooms. Opportunities for full or part time employment in emergency medical services are available to qualified applicants.

	Units
1. REQUIRED CERTIFICATE COURSES:	
A. EMT 251 Emergency Medical Technician B	5
Total Certificate Units:	5

The Skill Certificate requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Nursing and Allied Health Division Chair.

Certificate of Achievement in Environmental Control Technology

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of Environmental Control Technology. Students completing this certificate will acquire skills in maintenance and troubleshooting, air conditioning, heating and refrigeration equipment.

PROGRAM OUTCOMES:

Demonstrate competency in the necessary knowledge and skills required of an HVAC/R technician in the industry. This outcome will be assessed by test scores, labs completed and by diagnostic procedures.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: service technician HVAC/R, wholesale counter person, outside sales, maintenance technician, sheet metal fabricator and sheet metal installer.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	ECT 280	Elect & Controls for HVAC
B.	ECT 281	Basic Air Conditioning
C.	ECT 282	Adv Air Cond/Refrig Com/Dom
D.	ECT 242	Air Conditioning Sheet Metal
Total Certificate Units:		32

ECT 242 may be substituted with other support classes listed in COS Catalog under ECT, with the approval of the Division Chair.

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Equine Science

Division: Agriculture

This certificate prepares students for entry-level employment in the field of Equine Science. Students completing this certificate will acquire sales and service, marketing, accounting, and computer applications in agriculture and as related to horse husbandry, equitation and animal health.

PROGRAM OUTCOMES:

- List and demonstrate proper and safe handling, tying, saddling, and mounting/dismounting a horse.
- Demonstrate proper horse control utilizing the three basic gaits. These gaits are to be performed to beginning-level industry standards.
- Demonstrate industry-level competency in the area of nutrition, health, breeding and record keeping.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: equine barn manager, reproductive management, equine clinician, or retail sales in agriculture.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A..	ASCI 022 Horse Husbandry	3
B.	ASCI 103 Animal Nutrition	3
C.	ASCI 104 Animal Diseases & Sanitation	3
D.	ASCI 123 Horse Production	3
E.	ASCI 124 Colt Breaking	2.5
F.	ASCI 130 Equine Evaluation	2
G.	ASCI 140 Beginning Equitation	2.5
	or	
	ASCI 141 Intermediate Equitation	2.5
H.	WEXP 193 F Agriculture Wrk Exp-1st Sem	1
Total Certificate Units:		20

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Certificate of Competency in ESL Advanced Level (Noncredit)

Division: Language Arts

Students completing this certificate will acquire reading strategies and comprehension skills suitable for texts in Developmental English courses. Additionally, students will be able to write multi-paragraph essays and produce complex English words and phrases.

PROGRAM OUTCOMES:

- Apply reading strategies, comprehend texts suitable for Developmental English classes (i.e., two levels below freshman English), and acquire vocabulary from context.
- Write multi-paragraph essays using standard English that communicate a main idea with support.
- Orally produce a complex variety of English words or phrases to conduct presentations and participate in conversations.

This advanced program parallels the developmental English composition course, but stresses improvement of the skills with an emphasis on the special needs of the non-native speaker.

		Hours
1. REQUIRED CERTIFICATE COURSES:		
A.	ESL 440	Adv Writing/Grammar 5
B.	ESL 441	Advanced Reading/Vocab 5
C.	ESL 442	Adv Listening/Speaking 5
D.	ESL 450	Advanced Writing/Grammar 6
E.	ESL 451	Adv Reading/Vocabulary 6
F.	ESL 452	Adv Listening/Speaking 6
Total Required Certificate Hours:		350

Certificate of Competency in ESL Beginning Level (Noncredit)

Division: Language Arts

Students completing this certificate will acquire basic reading comprehension skills and new vocabulary, and will be able to produce simple sentences and pronounce a variety of English words and phrases that will prepare them to enter college-level ESL classes as well as begin to function in an English-speaking community.

PROGRAM OUTCOMES:

- Read with basic comprehension and acquire new vocabulary from context.
- Produce simple, accurate sentences that express a main idea.
- Pronounce a variety of English words and phrases at a rudimentary level.

This certificate will allow completers to begin to function in everyday situations in their social, business, educational, medical and financial lives in the community. This program differs from that offered in adult schools in its rigor and focus.

		Hours
1. REQUIRED CERTIFICATE COURSES:		
A. ESL 402	Beginning Writing/Grammar 1	105
B. ESL 403	Beginning Reading/Vocabulary 1	52.5
C. ESL 410	Beg Writing/Grammar 2	105
D. ESL 411	Beginning Reading/Vocabulary 2	52.5
E. ESL 404	Beg. Listening/Speaking 1	35
or ESL 412	Beg. Listening/Speaking 2	35
Total Required Certificate Hours:		350

Certificate of Competency in ESL Intermediate Level (Noncredit)

Division: Language Arts

Students completing this certificate will acquire intermediate reading strategies, the ability to write short compositions, and orally produce moderately complex English words.

PROGRAM OUTCOMES:

- Read with intermediate reading strategies, comprehend basic texts, and acquire new vocabulary from context.
- Write short compositions, from one paragraph to about one page in length that identify and support a main idea.
- Orally produce a moderately complex variety of English words and phrases to conduct basic presentations and participate in conversations.

		Hours
1. REQUIRED CERTIFICATE COURSES:		
A. ESL 420	Intermediate Writing/Grammar 3	105
B. ESL 421	Intermediate Reading/Vocab 3	52.5
C. ESL 430	Intermediate Writing/Grammar 4	105
D. ESL 431	Intermediate Reading/Vocab 4	52.5
E. ESL 422	Interm Listening/Speaking 3	35
OR ESL 432	Interm Listening/Speaking 4	
Total Required Certificate Hours:		350

Certificate of Achievement in Fashion Design

Division: Consumer/Family Studies

This certificate prepares students for entry-level employment in the field of Fashion Design. Students completing this certificate will acquire skills at an advanced level in designing apparel, creating patterns, selecting materials and marketing finished products.

PROGRAM OUTCOMES:

- Basic knowledge of garment construction and pattern drafting methods related to fashion industry standards.
- Apply elements and principles of design to the development and creation of designed garments using the following learned skills as they pertain to fashion industry standards: identification and knowledge of textiles, garment construction and pattern making.
- Identify and appraise a variety of career paths within the fashion industry.
- Evaluate different fabrics and fibers to their application or end use.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: fashion designer, pattern drafter, pattern grader, sample maker, production manager, shipping manager, manufacturer's sales representative, dressmaker, tailor and alterationist.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	FASH 076 Textiles	3
B.	FASH 141 Principles of Fashion	3
C.	FASH 160 Clothing Construction	3
D.	FASH 161 Tailoring	3
E.	FASH 162 Fashion/Design/Patternmaking	3
F.	ART 006 Color and Design	3
	Required Certificate Units:	18
2.	RESTRICTED ELECTIVES: (Select a minimum of 3 unit from the following):	
	FASH 140 Intro to the Fashion Industry	3
	FASH 142 Visual Merchandising and Sales	3
	FASH 263 Basic Sewing	3
	Restricted Elective Units:	3
	Total Certificate Units:	21

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Consumer Family Studies Division Chair.

Skill Certificate in Fashion Design & Construction

Division: Consumer/Family Studies

Students completing this certificate will acquire entry-level employment in the field of fashion that includes knowledge in fashion design, basic sewing and clothing construction.

PROGRAM OUTCOMES:

- Identify and appraise a variety of career paths within the fashion industry.
- Basic knowledge of garment construction and pattern drafting methods related to fashion industry standards.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: fabric and apparel pattern maker or cut and sew apparel positions.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	FASH 140 Intro to the Fashion Industry	3
B.	FASH 160 Clothing Construction	3
C.	FASH 263 Basic Sewing	3
	Total Certificate Units:	9

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Consumer Family Studies Division Chair.

Certificate of Achievement in Fashion Merchandising

Division: Consumer/Family Studies

This certificate prepares students for entry-level employment in the field of Fashion Merchandising. Students completing this certificate will acquire the ability to identify clothing sizes, price ranges, style classification for womenswear, menswear and childrenswear. Students will learn the sequence of garment production and distribution to retail stores at an advanced level. They will learn factors that influence fashion forecasting and identify target markets for current fashion trends.

PROGRAM OUTCOMES:

- Identify and appraise a variety of career paths within the fashion world.
- Identify and apply visual merchandising principles, tools and methods to create an effective visual store layout.
- Apply elements and principles of design to the development, production, selection, and evaluation of apparel and other textile products.
- Evaluate different fabrics and fibers with respect to their application and end use.
- Apply interpersonal and communication skills to solve problems or create solutions within the apparel industry.
- Evaluate multiple factors important to the industry (i.e., materials, design, quality standards, production methods, probability, end use, and consumer expectations) to make manufacturing and marketing decisions.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: retail supervisor, buyer or sales representative, store manager, visual manager, retail fashion coordinator, fashion stylist, and display specialist.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	ART 006 Color and Design	3
B.	FASH 076 Textiles	3
C.	FASH 140 Intro to the Fashion Industry	3
D.	FASH 141 Principles of Fashion	3
E.	FASH 142 Visual Merchandising and Sales	3
F.	FASH 160 Clothing Construction	3
G.	WEXP 193 Z Fashion Wrk Exp-1st Sem	3
	Total Certificate Units:	21

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Consumer Family Studies Division Chair.

Skill Certificate in Fashion Merchandising

Division: Consumer/Family Studies

Students completing this certificate will acquire entry-level employment in the field of fashion merchandising. Students will be able to identify clothing sizes, body types, color seasons and clothing classifications for womenswear, menswear and childrenswear. Students will learn basic customer service skills and how to apply target market and generational marketing concepts. Finally, students will learn visual merchandising principles in order to create an effective visual store plan.

PROGRAM OUTCOMES:

- Identify and appraise a variety of career paths within the fashion world.
- Identify and apply visual merchandising principles, tools and methods to create an effective visual store layout.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: retail salesperson, stock clerks, and order fillers, merchandise displays and window trimmers.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	FASH 140 Intro to the Fashion Industry	3
B.	FASH 141 Principles of Fashion	3
C.	FASH 142 Visual Merchandising and Sales	3
	Total Certificate Units:	9

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Consumer Family Studies Division Chair.

Skill Certificate in Fire Academy

Division: Special Programs

Students completing this certificate will acquire manipulative and technical training in basic concepts in fire service organization and theories of fire control, including laws and regulations affecting the fire service personnel, and functions; fire organizations; principles of fire behavior; and the basic consideration in fire strategy and tactics.

PROGRAM OUTCOMES:

- Demonstrate an understanding of the principles of fire development, cause, and prevention.
- Demonstrate in-depth knowledge of principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground.
- Apply the theory and principles for the use of water in fire suppression activities, including hydraulic principles.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment as firefighters.

	Units
1. REQUIRED CERTIFICATE COURSES:	
A. FIRE 270 Basic Fire Fighter 1 Academy	15
Total Certificate Units:	15

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Most fire agencies in California require completion of Fire Fighter 1 Academy and completion of EMT training as minimum qualifications to compete in fire department entrance examinations. Additional education, such as a Vocational Education Certificate or Associates degree is recommended.

Certificate of Achievement in Fire Technology

Division: Special Programs

This certificate prepares students for entry-level employment in the field of Fire Technology. Students completing this certificate will acquire skills necessary for employment or advancement as an entry-level firefighter or other positions in the field of fire protection and prevention.

PROGRAM OUTCOMES:

- Demonstrate effective communication and interpersonal skills with supervisors, peers, and the public.
- Demonstrate an understanding of the principles of fire development, cause, and prevention.
- Demonstrate in-depth knowledge of the principles of fire control through the utilization of personnel, equipment, extinguishing agents on the fire ground.
- Apply the theory and principles for the use of water in fire suppression activities, including hydraulic principles.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: firefighter, firefighter/paramedic, fire investigation, fire prevention and public education.

	Units
1. REQUIRED CERTIFICATE COURSES:	
A. FIRE 155 Fire Behavior and Combustion	3
B. FIRE 159 Intro to Fire Protection Org	3
C. FIRE 163 Fire Protection Equip/System	3
D. FIRE 182 Bld Constr for Fire Protectn	3
Required Certificate Units:	12
2. RESTRICTED ELECTIVES:	
Choose 18 units from the following:	
FIRE 280 Fire Fighter 2 Academy	5
EMT 251 Emergency Medical Technician B	5
FIRE 125 Fund Fire/Apparatus/Equipment	3
FIRE 156 Fire Service Hydraulics3	
FIRE 157 Fire Prevention Technology	3
FIRE 160 Fire and Emergency Safety	3
FIRE 161 S.F.M.-Fire Prevention 1A	2
FIRE 162 S.F.M.-Fire Prevention 1B	2
FIRE 168 S.F.M. Training Instructor 1A	2
FIRE 169 S.F.F. Training Instructor 1B	2
FIRE 173 S.F.M. Fire Command 1A	2
FIRE 174 S.F.M. Fire Command 1B	2
FIRE 270 Basic Fire Fighter 1 Academy	15
FIRE 275 Fire Command 1C-I-Zone F1	2
FIRE 277 S.F. M. Fire Management 1	2
Restricted Electives Units:	18
Total Certificate Units:	30

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Units for classes which are duplicated in the above sections may not be considered in more than one section.

Skill Certificate in Floral Technology

Division: Agriculture

Students completing this certificate will acquire the ability to identify and select appropriate plant material to create a floral design for the needs of a client.

PROGRAM OUTCOMES:

- Calculate the cost and profit margin for a completed floral design or event based on current market value.
- Communicate with the public and colleagues using a variety of communication methods.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: floral technician, floral delivery, floral consultant, floral design, floral sales and services.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. OH 111	Floral Design	3
B. OH 212	Sympathy Flowers	3
C. OH 213	Wedding Flowers	3
D. OH 223	Interior Floral Design	3
E. WEXP 193 F	Agriculture Wrk Exp-1st Sem	3
Total Certificate Units:		15

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Certificate of Achievement in Food Services, Advanced Skills

Division: Consumer/Family Studies

This certificate prepares students for entry-level employment in the field of Food Services, Advanced Skills. Students completing this certificate will acquire time management and critical thinking skills, the abilities to prepare bakery, fresh and cooked food items, to follow food safety and sanitation procedures, to comply and maintain records for food use and expenditures, to direct activities of assistant workers in preparation and service of food items, and to train new employees.

PROGRAM OUTCOMES:

- Identify and practice proper food safety and sanitation techniques.
- Use proper food service equipment and apply proper techniques in food preparation.
- Given a standard recipe, correctly increase or decrease the yield of the recipe, including adjustment of ingredient amounts, cooking techniques and cooking time, if necessary.
- Create an entree using culinary preparation techniques and following safety and sanitation procedures in an organized time frame that meets culinary productivity and quality standards.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: cooks in institutional food service such as schools, hospitals and cafeterias; prep-cook or short order cook in restaurants.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	NUTR 018 Nutrition	3
	or	
	NUTR 218 Nutrition Basics	3
B.	CULN 201 Food	3
C.	NUTR 107 Sanitation and Safety	2
D.	BUS 188 Human Relations in Business	3
	or	
	BUS 230 Supervision/Mgmt/1st Line Supr	3
E.	CULN 205 Professional Cooking	3
F.	CULN 206 Professional Cooking 2	3
G.	WEXP 193 D Food Services Wrk Exp-1st Sem	1
	Required Certificate Units:	18
2.	RESTRICTED ELECTIVES: (Select 3 units from the following):	
	NUTR 020 Cultural Foods	3
	NUTR 214 Cooking for a Healthy Life	3
	NUTR 119 Nutrition for Fitness	3
	or HW119	
	Restricted Elective Units:	3
	Total Certificate Units:	21

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Consumer Family Studies Division Chair.

Skill Certificate in Food Service, Basic Skills

Division: Consumer/Family Studies

Students completing this certificate will acquire decision-making skills and judgment to serve customers in eating places, and the ability to clean and organize eating areas, to prepare simple food and beverages, to cook or reheat food items, and to follow food safety and sanitation procedures.

PROGRAM OUTCOMES:

- Identify and practice proper food safety and sanitation techniques.
- Use the proper equipment and apply the proper techniques in food preparation.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: food preparation or food server in restaurants, cafeterias or food service institutions.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	NUTR 107 Sanitation and Safety	2
B.	CULN 201 Foods	3
	or	
	CULN 205 Professional Cooking	3
	Required Certificate Units:	5
2.	RESTRICTED ELECTIVES: (Select 3 units from the following):	
	NUTR 018 Nutrition	3
	NUTR 020 Cultural Foods	3
	NUTR 214 Cooking for a Health Life	3
	NUTR 218 Nutrition Basics	3
	Restricted Elective Units:	3
	Total Certificate Units:	8

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Consumer Family Studies Division Chair.

Skill Certificate in Food Service, Intermediate Skills

Division: Consumer/Family Studies

Students completing this certificate will acquire time management and critical thinking skills to perform simple food preparation, plan work so food items are prepared and served together, complete food orders for steam tables, and follow proper food safety and sanitation procedures.

PROGRAM OUTCOMES:

- Identify and practice proper food safety and sanitation techniques.
- Use the proper equipment and apply the proper techniques in food preparation.
- Correctly increase or decrease the yield of the recipe; including adjustment of ingredient amounts, cooking techniques and cooking time, if necessary.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: food preparation workers in restaurants, food service institutions and cafeterias.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	NUTR 107 Sanitation and Safety	2
B.	CULN 201 Foods	3
C.	CULN 205 Professional Cooking	3
D.	BUS 188 Human Relations in Business	3
	Required Certificate Units:	11
2. RESTRICTED ELECTIVES: (Select 3 units from the following):		
	NUTR 018 Nutrition	3
	NUTR 020 Cultural Foods	3
	NUTR 214 Cooking For a Healthy Life	3
	NUTR 218 Nutrition Basics	3
	Restricted Elective Units:	3
	Total Certificate Units:	14

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Consumer Family Studies Division Chair.

Certificate of Achievement in Graphic Design

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of Graphic Design. Students completing this certificate will acquire knowledge and skills related to creating and appraising graphic design and integrated graphics utilizing the computer software Adobe Illustrator, PhotoShop, and InDesign.

PROGRAM OUTCOMES:

- Create and appraise graphic designs related to graphic design applications and integrated graphics utilizing various graphic design computer programs such as Adobe Illustrator, PhotoShop, and InDesign.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: Graphic Designer

		Units	
1. REQUIRED CERTIFICATE COURSES:			
A.	GD 159	Adobe Illustrator	2
B.	GD 160	Graphic Design	4
C.	GD 161	Graphic Design Applications	4
D.	GD 162	Integrated Graphics	4
E.	GD 163	Adobe InDesign	3
Total Certificate Units:			17

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Human Services (Social Work)

Division: Social Sciences

This certificate prepares students for entry-level employment in the field of Human Services (Social Work). Students completing this certificate will acquire skills in critical thinking, case planning, crisis intervention, theory-based assessment, working knowledge of community resources and hands-on work experience in a human services agency in the community.

PROGRAM OUTCOMES:

- Analyze a person or family in a case vignette and come up with the key issues that are impacting the case.
- Identify any legal and ethical issues in providing services to a case vignette.
- Discuss planned interventions to assist the person or family in a case vignette.
- Use knowledge of community resources to “treat” issues in a case vignette.
- Identify ways to manage the student’s own issues that result from providing services to a case vignette, such as supervision, consultation, and setting limits.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: entry-level jobs in Health and Human Services and a variety of non-profit service organizations working in eligibility, case management, crisis, residential care and substance abuse treatment.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	COMP 005 Computer Concepts	4
	or COMP 130 Introduction to Personal Computers	4
B.	ECON 025 Introduction to Economics	3
	or ECON 040 Principles of Microeconomics	3
	or BUS 297 Personal Finance	3
C.	HSRV 101 Group Design and Leadership	4
D.	HSRV 102 Drug and Alcohol Treatment	3
E.	HSRV 120 Introduction to Social Welfare	3
F.	HSRV 121 Interviewing	4
G.	HSRV 122 Introduction of Human Services	3
	Required Certificate Units:	24
 2. REQUIRED WORK EXPERIENCE		
	Select 6 units of the following (no more than 4 units of any one course):	
	WEXP193 H Human Services Wrk Exp-1st Sem	1-4
	WEXP194 H Human Services Wrk Exp-2nd Sem	1-4
	WEXP195 H Human Services Wrk Exp-3rd Sem	1-4
	WEXP196 H Human Services Wrk Exp-4th Sem	1-4
	Required Work Experience Units	6
 3. RESTRICTED ELECTIVES:		
	Select 6 units from the following:	
	HSRV 103 Gerontology	3
	HSRV 104 Issues in Family Violence	3
	ANTH 010 Cultural Anthropology	3
	PSY 001 General Psychology	3
	PSY 005 Social Psychology	3
	PSY 010 Human Sexuality	3
	PSY 034 Abnormal Psychology	3
	PSY 133 Personal and Social Growth	3
	SOC 026 Marriage and Family Life	3
	Restricted Electives Units:	6
	Total Certificate Units:	36

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Social Sciences Division Chair.

Certificate of Achievement in Industrial Maintenance Technology

Division: Industry & Technology

This certificate prepares students for entry-level employment in the fields of industrial maintenance, industrial machine operation, industrial electrician, corrections facilities maintenance, hospital engineer, and food service machine technicians. Students completing this certificate will acquire employment skills in the area of electricity, motor controls and programmable motor drives, programmable logic controllers, hydraulics/pneumatics, industrial mechanics, machining, refrigeration and boilers, and welding.

PROGRAM OUTCOMES:

- Identify, design, and troubleshoot an industrial electrical circuit with a multi-meter to industrial standards.
- Read a print, repair and maintain the mechanical components of hydraulic and pneumatic circuits found in industrial machines to like new condition.
- Design, program, and troubleshoot both programmable logic controllers (PLC), and variable frequency drives (VFD). This is accomplished in single phase and three phase circuits.
- Weld in three modes: MIG, STICK, and TIG to industrial maintenance standards.
- Have additional entry level job skills in: machining, boilers, refrigeration, mechanics, motor control, and fabrication.
- Possess entry-level job skills necessary to program controllers in the industry.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: industrial maintenance technician, industrial machine operator, industrial electrician, corrections facilities maintenance, hospital engineer, and food service machine technician.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	ITEC 110 Electricity and Electronics	3
B.	ITEC 111 Manufacturing Processes	3
C.	ITEC 112 Welding Principles 1	4
D.	ITEC 213 Industrial Mechanics	5
E.	ITEC 120 Programmable Logic Controllers	3
F.	ITEC 222 Automated Controls	5
G.	ITEC 223 Welding Principles 2	4
H.	ITEC 224 Hydraulics and Pneumatics	3
	Required Certificate Units:	30
2.	Electives	
A.	WEXP 193 M Maint Tech Wrk Exp-1st Sem	4
B.	WEXP 194 M Maint Tech Wrk Exp-2nd Sem	4
C.	WEXP 195 M Maint Tech Wrk Exp-3rd Sem	4
D.	WEXP 196 M Maint Tech Wrk Exp-4th Sem	2-4
	Electives Units:	0-16
	Total Certificate Units:	30

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Interpreter (Spanish)

Division: Language Arts

Students completing this certificate will be prepared for the three California Judicial Council/Administrative Office of the Courts Certified Interpreter Exams in English and Spanish.

PROGRAM OUTCOMES:

Function as interpreters within the court system.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in a variety of governmental and medical settings.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	ENGL 001 College Reading & Composition	4
B.	SPAN 004 Advanced Spanish	4
	or	
	SPAN 012 Hispanic Literature	3
C.	SPAN 280 Interpreter Written Exam Prep	1
D.	SPAN 281 Spanish Interpreting Skills	3
E.	ENGL 380 Vocabulary Building for Tests	1
	Required Certificate Units:	12-13
2.	RESTRICTED ELECTIVES:	
	Select 8-9 additional units from this list to complete the requirements for this certificate	
	SPAN 282 Spanish Legal/Medical Terms	3
	BUS 293 Business English	4
	AJ 112 Legal Aspects of Evidence	3
	AJ 115 Criminal Law 2	3
	ENGL 251 Intro to Acad Read & Writing	4
	WEXP 193 C Court Interp Wrk Exp-1st Sem	1-4
	WEXP 194 C Court Interp Wrk Exp-2nd Sem	1-4
	WEXP 195 C Court Interp Wrk Exp-3rd Sem	1-4
	WEXP 196 C Court Interp Wrk Exp-4th Sem	1-4
	Restricted Electives Units:	8-9
	Total Certificate Units:	21

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Language Arts Division Chair.

Certificate of Achievement in Landscape Design

Division: Agriculture

This certificate prepares students for entry-level employment in the field of Landscape Design. Students completing this certificate will acquire skills in successfully planning and designing residential landscapes and gardens using current standards and plant material.

PROGRAM OUTCOMES:

- Evaluate a landscape or residential site and develop a landscape plan and proposal for the property.
- Communicate with the public and colleagues using a variety of communication methods and digital media.

ENTRY LEVEL EMPLOYMENT OPPORTUNITIES: This certificate prepares students for entry-level employment in the field of landscape design. Students completing this certificate will have a foundation for the field of landscape design as well as selecting, grouping, and placing plant materials into various landscape styles, situations and themes. Students will acquire skills to successfully plan and design residential landscapes and gardens using current standards and plant material.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. AGMT 108	Ag Business Computer Apps	3
B. OH 002	Plant Identification 1	3
C. OH 003	Plant Identification 2	3
D. OH 007	Principles of Landscape Design	3
E. OH 206	Landscape Drafting	3
F. OH 208	Landscape Construction	3
G. OH 218	Xeriscape: Water Conservation	3
Total Certificate Units:		21

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Certificate of Achievement in Landscape Management

Division: Agriculture

This certificate prepares students for entry-level employment in the field of Landscape Management. Students completing this certificate will acquire landscape maintenance, turfgrass management, landscape irrigation, and integrated pest management skills.

PROGRAM OUTCOMES:

- Exhibit appropriate installation and cultural management practices for an aesthetically pleasing landscape.
- Communicate with the public and colleagues utilizing a variety of communication methods.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: landscape installation and maintenance, equipment and supply sales, turf management, pesticide applicator, landscape water auditor, and parks maintenance personnel.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	AGMT 108 Ag Business Computer Apps	3
B.	OH 001 Basic Ornamental Horticulture	3
C.	OH 002 Plant Identification 1	3
D.	OH 109 Landscape Maintenance	3
E.	OH 210 Turfgrass Management	3
F.	OH 217 Landscape Irrigation	3
G.	OH 220 Diseases of Ornamentals	3
H.	OH 222 Pests of Ornamentals	3
I.	WEXP 193 F Agriculture Wrk Exp-1st Sem	1
	Required Courses Units:	25
2.	Restricted Electives:	
	Select one course from the following:	
	OH 007 Principles of Landscape Design	3
	OH 204 Nursery & Greenhouse Productn.	3
	OH 206 Landscape Drafting	3
	OH 208 Landscape Construction	3
	OH 218 Xeriscape: Water Conservation	3
	Restricted Electives Units:	3
	Total Certificate Units:	28

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Skill Certificate in Leadership

Division: Student Services

Students completing this certificate will acquire principles of effective leadership, including leadership styles and Robert's Rules of Order, a high level of effective communication, conflict resolution, team-building and community service and networking skills.

PROGRAM OUTCOMES:

- Demonstrate leadership skills and be able to function effectively as a leader.
- Function as an effective group member.
- Use critical thinking to inform strong decision-making skills.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: entry-level employment in customer service, in retail positions, in office positions and in political activism.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. IS 210	Leadership Development	2
B. IS 211	Student Governance	2
C. IS 212	Peer Mentoring and Leadership	2
D. IS 213	Student Senate Development	2
Total Certificate Units:		8

The Skill Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Student Services Division Chair.

Certificate of Achievement in Legal Secretary/Law Office Clerk

Division: Business

This certificate prepares students for entry-level employment in the field of law as a Legal Secretary/Law Office Clerk for both state agencies and private law firms. Students completing this certificate will acquire skills in proofreading and processing documents, among other tasks.

PROGRAM OUTCOMES:

- Read, understand, and type legal documents that are most commonly used in a legal office setting.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: legal secretary and/or law office assistant positions in California and in private law firms and positions with the child support office.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	BUS 184 Business Communications	3
B.	BUS 271 College Keyboarding Level 2	3
C.	BUS 293 Business English	4
D.	PARA 101 Intro to Paralegalism	3
E.	PARA 102 Legal Terminology	2
F.	PARA 205 Legal Research and Writing	4
G.	PARA 210 Legal Ethics, Mgt & Interview	3
H.	WEXP 193 O Law Office Clk Wrk Exp-1st Sem	1-2
	Required Courses Units:	23-24
2.	Additional Requirement:	
	Typing certificate within the last six months of certificate application verifying a typing speed of 45 CWAM for 5 minutes.	
	Additional Requirement Units:	0
	Total Certificate Units:	23-24

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Business Division Chair.

Certificate of Achievement in Machining and Manufacturing

Division: Industry and Technology

This certificate prepares students for entry-level employment in the field of Machining and Manufacturing. Students completing this certificate will acquire skills, knowledge, and abilities related to new technologies in manufacturing including machine tools, machine shop practices with emphasis on Occupational Safety Health Administration (OSHA), and National Institute for Metalworking Skills (NIMS) standards.

PROGRAM OUTCOMES:

- Acquire skills, knowledge, and abilities related to new technologies in manufacturing including machine tools, machine shop practices with emphasis on Occupational Safety Health Administration (OSHA) and National Institute for Metalworking Skills (NIMS) standards.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: Machinist.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. MANU 210	Introduction to Machine Shop	4
B. MANU 211	Machine Shop 1	4
C. MANU 212	Machine Shop 2	4
D. MANU 213	Machine Shop 3	4
E. MANU 214	Machine Shop 4	4
Total Certificate Units:		20

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Mechanical Drafting

Division: Industry and Technology

This certificate prepares students for entry-level employment in the field of Mechanical Drafting. Students completing this certificate will acquire knowledge and skills related to creating and appraising manufacturing and industrial applications (2D and 3D), specifically CAD and tactile (by hand) drawings.

PROGRAM OUTCOMES:

Create and analyze documents related to mechanical drafting, i.e., computer-assisted and tactile drafting/design

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: CAD Technician/Draftsperson in manufacturing or industrial fields.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. DRFT 112	Mechanical Drafting 1	3
B. DRFT 113	Mechanical Drafting 2	3
C. DRFT 114	Introduction to CAD	4
D. DRFT 115	Advanced CAD	4
E. DRFT 016	CAD Applications	4
Total Required Certificate Units:		18

Architecture Department website: www.cos.edu/architecture

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in NCCER Electrical Applications

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of NCCER Electrical Applications. Students completing this certificate will acquire skills, knowledge, and abilities to prepare them for the California Electrician Certification Examination.

PROGRAM OUTCOMES:

At the end of this program, students will be prepared to take the “applications” portion of the California Electrician Certificate Examination.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this NCCER Electrical Applications certificate, the previous NCCER Electrical Theory certificate, and the passing of the California Electrician Certification Examination, students will be prepared for employment in the following fields: State of California Certified Electrician.

		Units
1. REQUIRED CERTIFICATE COURSES		
A. ET 204	Electrician Training 4	4
B. ET 205	Electrician Training 5	4
C. ET 206	Electrician Training 6	4
D. ET 207	Electrician Training 7	4
Total Certificate Units:		16

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in NCCER Electrical Theory

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of NCCER Electrical Theory. Students completing this certificate will acquire skills, knowledge, and abilities to prepare them for the California Electrician Certification Examination.

PROGRAM OUTCOMES:

At the end of this program, students will be prepared to take the “theory” portion of the California Electrician Certificate Examination.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this NCCER Electrical Theory certificate, the subsequent NCCER Electrical Applications certificate, and the passing of the California Electrician Certification Examination, students will be prepared for employment in the following fields: State of California Certified Electrician.

		Units
1.	REQUIRED CERTIFICATE COURSES	
	NOTE: Most courses have prerequisites and must be taken in the appropriate order as listed in the certificate.	
A.	ET 200 Intro to Electrician Training	4
B.	ET 201 Electrician Training 1	4
C.	ET 202 Electrician Training 2	4
D.	ET 203 Electrician Training 3	4
	Total Certificate Units:	16

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Ornamental Horticulture

Division: Agriculture

This certificate prepares students for entry-level employment in the field of Ornamental Horticulture. Students completing this certificate will acquire plant propagation, pest management, plant identification and basic ornamental horticulture skills and practices.

PROGRAM OUTCOMES:

- Identify and classify common landscape plants utilized in the climate zones of the Central Valley and describe their cultural requirements.
- Describe and demonstrate the safe and efficient use of tools, equipment and materials commonly used in ornamental horticulture and nursery management.
- Prepare appropriate growth media and utilize common horticultural techniques and practices to propagate and produce ornamental plants in containers.
- Demonstrate effective oral and written communication skills.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: nursery production, landscape maintenance, parks and recreation, garden centers.

	Units
1. REQUIRED CERTIFICATE COURSES:	
A. AGMT 108 Ag Business Computer Apps	3
B. OH 001 Basic Ornamental Horticulture	3
C. OH 002 Plant Identification 1	3
D. OH 003 Plant Identification 2	3
E. OH 105 Plant Propagation	3
F. OH 204 Nursery & Greenhouse Productn.	3
G. OH 222 Pests of Ornamentals	3
H. WEXP 193 F Agriculture Wrk Exp-1st Sem	1
Required Courses Units:	22
 2. RESTRICTED ELECTIVES:	
Select two courses from the following list:	
OH 007 Principles of Landscape Design	3
OH 109 Landscape Maintenance	3
OH 206 Landscape Drafting	3
OH 208 Landscape Construction	3
OH 210 Turfgrass Management	3
OH 217 Landscape Irrigation	3
OH 218 Xeriscape: Water Conservation	3
OH 220 Diseases of Ornamentals	3
Restricted Electives Units:	6
Total Certificate Units:	28

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Skill Certificate in Ornamental Horticulture: Retail Nursery Skills Option

Division: Agriculture

Students completing this certificate will acquire basic skills in plant identification, selection and usage, and cultural practices for working in a retail nursery.

PROGRAM OUTCOMES:

- Identify and classify plant material, describe its usage, and cultural practices.
- Prepare appropriate growth media for propagation techniques and growing plant materials in containers.
- Communicate with the public and colleagues using a variety of methods and digital applications.

ENTRY LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: nursery sales associate, garden center, landscape maintenance.

1. REQUIRED CERTIFICATE COURSES:		Units
A. OH 001	Basic Ornamental Horticulture	3
B. OH 002	Plant Identification 1	3
C. OH 003	Plant Identification 2	3
D. OH 204	Nursery & Greenhouse Productn.	3
Total Certificate Units:		12

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Certificate of Achievement in Paralegal

Division: Business

This certificate prepares students for entry-level employment in the field of Paralegal. Students completing this certificate will acquire skills related to record-keeping, brief writing, basic law office management, legal research and writing, drafting legal documents and preparation of evidence through the discovery process.

PROGRAM OUTCOMES:

- At the end of this program, students will be given a complex fact pattern in the Research and Writing class and they will use the legal research program lexis.com to conduct legal research and locate legal authority to draft and write a motion.
- At the end of this program, students will be given a complex fact pattern in the Research and Writing class and they will use the legal research program lexis.com as well as the library resources available in the COS library to conduct legal research and locate legal authority to draft and write an internal office memorandum of law.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: entry-level careers as a legal document assistant or paralegal.

	Units
1. REQUIRED MAJOR COURSES:	
A. BUS 184 Business Communications	3
B. BUS 271 College Keyboarding Level 2	3
C. BUS 293 Business English	4
D. PARA 101 Intro to Paralegalism	3
E. PARA 102 Legal Terminology	2
F. PARA 203 Civil Procedures 1	4
G. PARA 204 Civil Procedures 2	3
H. PARA 205 Legal Research and Writing	4
I. PARA 210 Legal Ethics, Mgt & Interview	3
J. WEXP 193 P Paralegal Wrk Exp-1st Sem	1-2
Required Certificate Units:	30-31
2. RESTRICTED ELECTIVES: Select a minimum of 10 units from the following list. Only one AJ course will count for these 10 units.	
AJ 014 Criminal Law I	3
AJ 025 Constitutional Law	3
AJ 112 Legal Aspects of Evidence	3
AJ 115 Criminal Law 2	3
BUS 018 Business Law	4
PARA 232 Wills, Trusts and Elder Law	2
PARA 233 Probate Procedures	3
PARA 236 Administrative Law	3
PARA 237 Family Law	3
WEXP 194 P Paralegal Wrk Exp-2nd Sem	1-2
Restricted Electives Units:	10
3. ADDITIONAL REQUIREMENTS:	
Typing certificate within the last six months of certificate application verifying a typing speed of 45 CWAM for 5 minutes.	
Additional Requirement Units:	0
Total Certificate Units:	40-41

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Business Division Chair.

Skill Certificate in Pharmacy Technician

Division: Nursing & Allied Health

Students completing this certificate will acquire skills in refilling prescriptions, maintaining proper storage and security conditions for drugs, assisting customers, cleaning and maintaining equipment and work areas, and entering inventory data into a computer.

PROGRAM OUTCOMES:

- Demonstrate cognitive, social, and motor skills, including basic understanding of the sciences, relevant to the role of the pharmacy technician in a variety of practice settings.
- Perform math calculations essential to the duties of a pharmacy technician.
- Produce accurate patient-specific and non-patient specific medications, including non-sterile and sterile compounding, re-packaging and kit preparation.
- Apply patient and medication safety practices in all aspects of the pharmacy technician role.
- Demonstrate ethical conduct and cognitive skills relevant to legal and regulatory requirements and professional standards in all aspects of the pharmacy technician role.
- Demonstrate cognitive and motor skills in the use of basic pharmacy equipment and accurately weigh, measure, and compound ingredients.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: health and personal care store worker, outpatient care, grocery store pharmacy worker, and employment in government sectors.

			Units
1. REQUIRED CERTIFICATE COURSES:			
A.	PT 210	Intro to Pharmacy Systems	1
B.	PT 211	Pharmacology for Pharm Techs	3
C.	PT 212	Pharm Tech Practice 1	1
D.	PT 220	Pharm Tech Practice 2	2
E.	PT 221	Professionalism for Pharm Tech	1
F.	PT 222	Pharm Tech Externship	2
Total Certificate Units:			10

At the completion of the program, the student will be required to obtain a pharmacy technician license for employment. Requirements to obtain the license are completion of the program, a fee, pass a criminal background check, and a Live Scan fingerprint clearance.

The Skill Certificate requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Nursing and Allied Health Division Chair.

Skill Certificate in Plant Science

Division: Agriculture

Students completing this certificate will acquire knowledge of and skills in the uses and control of soils, irrigation, weed control, plant diseases and pests, fertilizers and cultivation of crops.

PROGRAM OUTCOMES:

- Identify food and fiber crops in the San Joaquin Valley and their economic importance to the local and state economy.
- Explain the relationships between plant, soil, and water, and their impact on plant health, nutrition and the environment.
- Describe current cultural practices which improve quality and maximize yields in leading crops in the San Joaquin Valley.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: irrigation and crop production as well as related industries, such as equipment sales, fertilizer sales and application, plant protection, and crop consulting.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	AG 003 Economic Entomology	3
B.	AG 004 Soils	3
C.	PLSI 001 Intro to Plant Science	3
D.	PLSI 106 Fertilizers & Soil Amendments	3
E.	PLSI 108 Water Management	3
F.	WEXP 193 F Agriculture Wrk Exp-1st Sem	2
Total Certificate Units:		17

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Certificate of Achievement in POST Certified Basic Police Academy*

Division: Special Programs

This certificate prepares students for entry-level employment in the field of POST Certified Basic Police Academy. Students completing this certificate will acquire basic skills including training in firearms, emergency drivers training, chemical agents, officer survival, community policing, patrol procedures, investigations, traffic enforcement, cultural awareness, and criminal law.

PROGRAM OUTCOMES:

- Understand the material in each of forty-three learning domains.
- Demonstrate the ability to handle simulated calls for police services.
- Demonstrate competency in combat shooting principles and tactics using a handgun, shotgun, and tactical rifle.
- Demonstrate the ability to drive a law enforcement vehicle and to safely drive and control the vehicle while operating under emergency response (Code 3) conditions.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. PS 200M3	Basic Police Academy, Module 3	5.5
B. PS 200M2	Basic Police Academy, Module 2	9
C. PS 200M1	Basic Police Academy, Module 1	14
Total Certificate Units:		28.5

ALL APPLICANTS MUST:

- Be in good physical health.
- Be certified by a doctor to participate in a strenuous physical activity program.
- Have a high school diploma (GED).
- Be over 18 years of age.
- Have no felony convictions.
- Pass the academy pretest.
- Have a California Department of Justice Fingerprint Clearance to possess a firearm.

ADDITIONAL INFORMATION:

Prerequisite: Passing score on the POST Entry Level Reading and Writing Test. This is a standardized examination administered at the College by the State of California Commission on Peace Officer’s Standards and Training.

A **materials fee** and **EVOC fee** are charged in addition to normal college fees. Interested persons should contact the law enforcement training department (559) 583-2600, prior to registering for the course and for details of the application process.

*Program requirements are for students enrolled in the Fall 2016 term. Students enrolled in the Spring 2017 term, refer to the Addendum (page 385) for program requirements.

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Special Programs Division Chair.

Skill Certificate in Programmable Logic Controllers

Division: Industry & Technology

Students completing this certificate will acquire the programming, wiring, troubleshooting, and application of the Programmable Logic Controllers.

PROGRAM OUTCOMES:

Possess entry-level skills as a programmable logic controller technician to include program entry and troubleshooting skills.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: entry-level employment as a PLC technician.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	ITEC 274 Programmable Logic Controllers	2
	Total Certificate Units:	2

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Sustainability

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field of Sustainability. Students completing this certificate will acquire knowledge and skills in cutting edge sustainable, green, and eco technology for the building industry and the community at large.

PROGRAM OUTCOMES:

- Administer, apply, and define sustainable and green-related variables and associate them with real world situations related to the design profession.
- Implement issues related to sustainability.
- Administer, apply and define the principles, materials, methods, and processes of sustainable construction.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: Sustainability Specialist in architectural, engineering, or construction fields.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. ARCH 030	Sustainable and Green Topics	3
B. ARCH 133	Sustainability Implementation	3
C. ARCH 134	Sustainable Materials/Methods	3
D. ARCH 251	Independent Study-ARCH	1-4
E. ARCH 151	Independent Study-ARCH	1-4
Total Certificate Units:		11

This certificate is a partnership between the COS Architecture Department, EEC Tulare, and the USGBC Central California. The curriculum allows students to customize their course options based on their own interests. Three COS core courses are required in addition to one EEC and one USGBC course of the student’s choice (the one-unit courses are independent study).

Architecture Department Website: www.cos.edu/architecture

Other related certificates are offered through the Drafting Technology Department.

Skill Certificate requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Skill Certificate in Tactile Mechanical Drafting

Division: Industry & Technology

Students completing this certificate will acquire tactile (by hand) mechanical drafting knowledge and skills, i.e. creating and analyzing documents related to manufacturing applications (2D and 3D).

PROGRAM OUTCOMES:

At the end of this program, students will be able to create and analyze documents related to tactile (by hand) mechanical drafting.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Entry-level manufacturing Tactile Draftsperson.

www.cos.edu/architecture

Note: Other related certificates are offered through the Architecture Department.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	DRFT 112 Mechanical Drafting 1	3
B.	DRFT 113 Mechanical Drafting 2	3
	Total Certificate Units:	6

The Skill Certificate requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Veterinary Assistant

Division: Agriculture

This certificate prepares students for entry-level employment in the field of Veterinary Assistant. Students completing this certificate will acquire skills in small animal care, anatomy and physiology, parasitology, safety, small animal restraint and handling as well as basic livestock handling.

PROGRAM OUTCOMES:

- Provide humane care for companion and livestock animals regarding the laws and statutes governing animals and the veterinary profession.
- Identify and interpret different animal behaviors, as well as restrain and manage companion and livestock animals in clinical situations.
- Show competency in basic clinical procedures, as well as collect and process samples for various diagnostic laboratory assay.
- Communicate professionally both in oral and written formats demonstrating sound knowledge of the veterinary profession in that communication.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: veterinary assistant.

		Units
1. REQUIRED CERTIFICATE COURSES:		
High school preparation should include a good foundation in math, science, and English.		
A.	BIOL 022 Animal Biology	3
B.	VT 109 Intro to Veterinary Technology	3
C.	VT 118 Comparative Anatomy/Physiology	4
D.	VT 120 Parasitology	3
E.	VT 121 Large Animal Diseases	3
F.	VT 216 Veterinary Office Practices	2
G.	VT 217 Practical Animal Nursing	2
Total Certificate Units:		20

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Agriculture Division Chair.

Skill Certificate in Water & Wastewater Treatment

Division: Industry & Technology

Students completing this certificate will acquire knowledge and skills related to treating domestic drinking water and wastewater prior to disposal and/or reuse, related science and mathematics concepts, and preparing for the California State Certification by Department of Public Health (Grade T1 and T2) and California State Water Resources Control Board Certification (Grade 1 and 2).

PROGRAM OUTCOMES:

- Demonstrate a basic understanding of water and wastewater treatment principles, operations and maintenance considerations and water and wastewater related mathematics.
- Achieve the educational requirements necessary associated with prerequisites for water and wastewater industry examinations and/or certification.

ENTRY-LEVEL EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following jobs: Water Treatment Plant Operator, Water Distribution System Operator, or Wastewater Treatment Plant Operator.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A.	ITEC 220 Water Treatment Fundamentals	3
B.	ITEC 221 Wastewater Treatment Fundamentals	3
Total Certificate Units:		6

The Skill Certificate requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Welding

Division: Industry & Technology

This certificate prepares students for entry-level employment in the field(s) of welding and fabrication, both locally and internationally, and completion of this certificate can be enhanced for industry standards by students completing and passing American Welding society certifying tests. Students completing this certificate will acquire entry level skills in shielded metal arc, gas metal arc, gas tungsten metal arc, oxyfuel welding, oxyfuel cutting skills. Students will know basic metallurgy, blueprint design and reading, as well as the scientific principles of welding.

PROGRAM OUTCOMES:

- Adjust, operate and troubleshoot shielded metal arc welding, gas tungsten arc welding, gas metal arc welding, and oxyfuel welding apparatuses.
- Explain and apply the scientific concepts of metal transfer including SMAW, GMAW, GTAW, and OFW.
- Choose the correct joint prep process for the weld metal joints used in common manufacturing today.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: metal fabrication, oil field welding, pipeline welding, agriculture fabrication and metal agriculture implement repair, stainless steel fabrication, and welding maintenance in food processing facilities.

		Units
1. REQUIRED CERTIFICATE COURSES:		
A. AGTC 210	Ag Project Construction	3
or		
WELD 276	Metal Fabrication	3
B. WELD 161	Oxyacetylene Welding	4
C. WELD 162	Shielded Metal Arc Welding	4
D. WELD 171	Specialty Metals Welding	4
E. WELD 172	Gas Tungsten Arc Welding	4
F. WELD 181	Blueprint Reading/Metallurgy	3
G. WEXP 193 F	Agriculture Wrk Exp-1st Sem	1
	Required Courses Units:	23
2. RESTRICTED ELECTIVES:		
Students will take at least four units from the following list:		
WELD 105	Metalcraft Welding/Forging	3
WELD 107	Forging and Wrought Iron	2
WELD 273	Stainless Steel Weld/Repair	4
WELD 275	Welding Codes/Certification	4
WELD 274	Aluminum Welding	4
AGTC 212	Welding Power Sources/Applicat	1
WEXP 194 F	Agriculture Wrk Exp-2nd Sem	1-4
	Restricted Electives Units:	4
	Total Certificate Units:	27

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Industry & Technology Division Chair.

Certificate of Achievement in Writing Consultancy

Division: Language Arts

This certificate prepares students for entry-level employment in the field of Writing Consultancy. Students completing this certificate will acquire the ability to communicate effective strategies, grounded in writing theory, as they tutor emerging writers; they will be able to communicate productively to a diverse population as they tutor; and they will exhibit proficient academic reading and writing skills themselves.

PROGRAM OUTCOMES:

- Help peers use effective strategies to generate, revise, and edit their writing. Tutoring techniques will be grounded in Writing Center and Composition theory.
- Demonstrate proficiency in academic reading and writing and be able to articulate writing concepts and rhetorical moves.
- Communicate effectively with diverse student writers, adjusting interpersonal communication practices to the writers' needs.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: teaching assistantships; tutoring in composition at the secondary, tertiary, and adult level; editing; publishing.

	Units
1. REQUIRED CERTIFICATE COURSES:	
A. ENGL 002 Logic and Composition	3
B. ENGL 123 Intro to Writing Consultancy	2
C. ENGL 124 Writing Cons. Theory/Practice	2
D. WEXP 193 L Education Wrk Exp-1st Sem	1
Required Courses Units:	8
2. RESTRICTED ELECTIVES:	
Students must take a minimum of 4 units from the following list:	
ENGL 125 Writing Center Pedagogy	2
ENGL 126 Research Proj in WC Consulting	2
ENGL 014 Creative Writing	3
JOUR 001 Writing for New Media	3.5
ENGL 004 Composition and Literature	3
LING 111 Introduction to Language	3
COMM 004 Interpersonal Communications	3
WEXP 194 L Education Wrk Exp-2nd Sem	1
Restricted Electives Units:	4
Total Certificate Units:	12

The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Language Arts Division Chair.

Course Descriptions



Course Numbering System at College of the Sequoias

The Course Number System provided below is to help students easily identify those courses needed as they plan their studies at College of the Sequoias.

All courses numbered 299 or lower are associate degree credit courses. They can be applied toward the 60-unit AA/AS graduation requirement and for vocational certificates.

Course Numbers Explanation

001-099	Courses accepted by the University of California System (See UC Transfer Course List for unit limitations). For specific course articulation (equivalency), consult www.assist.org , the Counseling Office or the Transfer Center.
001-199	Courses accepted by the California State University system and most other four-year colleges and universities. For specific course-to-course articulation (equivalency), consult www.assist.org , the Counseling Office or the Transfer Center.
200-299	Associate degree applicable. Although not intended for university transfer, these courses may be accepted by some colleges in certain majors, especially if provided for in an articulation agreement.
300-399	College credit, non-degree applicable and basic skill courses. Effective Summer Semester, 2008, students enrolled in the 300 series (course number) of classes will be graded on an "A," "B," "C," and "Pass/No Pass" basis.
400	Non-credit, general courses

Course Identification Numbering System (C-ID)

The California Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by individual California Community Colleges. Courses approved for the C-ID program are given a C-ID designation. College of the Sequoias courses with a C-ID designation will articulate with any other California Community College with the same C-ID designation. For example, ECON 40 has been approved for C-ID ECON 202 so ECON 40 is indirectly articulated with all other California Community College courses approved for C-ID ECON 202. In addition to the community college to community college articulation, a course with a C-ID course designation will articulate with California State Universities that have approved articulation with that C-ID designation. To access the CSU courses that have been identified by CSU campuses as comparable to C-ID descriptors visit the C-ID Web Site at www.c-id.net. You can search for courses by discipline or CSU campus.

Course requirements vary between colleges and universities and students are encouraged to consult the ASSIST database at www.assist.org and a COS counselor for program planning and course selection. Students may also consult the ASSIST database for specific information on C-ID course designations for all California Community Colleges. College of the Sequoias lists all C-ID course designations parenthetically after each course description in this catalog.

ACCOUNTING

ACCT 001 Financial Accounting 4
Hours: 4 Lecture/Discussion
This course introduces students to fundamental business organization, recording of business financial activities, accounting statements preparation, interrelationships, and the analysis of financial activities for business entities with an emphasis on accounting for corporations. (C-ID ACCT110)

ACCT 002 Managerial Accounting 4
Hours: 4 Lecture/Discussion
This is a second semester transfer-level course, which studies managerial control, job and process costing, activity based costing, standard costs, planning cost accumulation and capital budgeting and planning techniques; and other measuring and reporting methods. (C-ID ACCT120)

Prerequisites: ACCT 001 or equivalent college course with “C” or better.

ACCT 101 Essentials of Accounting 5
Hours: 5 Lecture/Discussion
ACCT 101 is an introduction to accounting for business and accounting students not planning to transfer to a four-year college or for non-business transfer majors. Students will learn accounting principles and practices including the effects of transactions, adjusting, closing, and reversing entries on the assets, liabilities, and owner’s equity elements of business entities.

ACCT 210 Computer Accounting 3
Hours: 3 Lecture/Discussion
This course introduces the computer-based accounting package, QuickBooks, to handle “General Ledger” accounting for a business. It is recommended for people engaged in accounting aspects for all types of business entities. Advisory on Recommended Preparation: ACCT 001 or ACCT 101 or equivalent college course with “C” or better

ACCT 282 Individual Income Tax 5
Hours: 5 Lecture/Discussion
A study of the Federal and California income tax laws that apply to the individual taxpayer. The requirements for becoming a licensed tax preparer and the rules and regulations governing licensed tax preparers are also included. Supplemental learning assistance is available for students to strengthen skills and to reinforce mastery of concepts.

ADMINISTRATION OF JUSTICE

AJ 011 Intro to Criminal Justice 3
Hours: 3 Lecture/Discussion
Introduction to Criminal Justice offers an overview of the criminal justice system, including law enforcement, courts and corrections. Students will examine the structure, function and decision making processes of the criminal justice system from the perspective of the criminal, police, courts and corrections. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with a “C” or better, or eligibility for ENGL 001 determined by COS Placement Procedures. Approved for Distance Learning format. (C-ID AJ110)

AJ 013 Community Relations 3
Hours: 3 Lecture/Discussion
This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics include but are not limited to consenting and conflicting values in culture, religion, law

and contemporary community policing models including community oriented policing and problem solving. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with “C” or better (C-ID AJ160)

AJ 014 Criminal Law 1 3
Hours: 3 Lecture/Discussion
This course offers an analysis of the doctrines of criminal liability in the United States and the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification of crime, the general elements of crimes, the definitions of common and statutory law, and the nature of acceptable evidence. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with a “C” or better, or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID AJ120)

AJ 025 Constitutional Law 3
Hours: 3 Lecture/Discussion
Equivalent Course: BUS 025, GOVT 025.
Students will apply logic and critical thinking to written and oral communication in the study of the fundamental rights of all citizens as protected by the United States Constitution. Case studies will be used as examples of the application of law.
Prerequisites: ENGL 251 or ENGL 261 or equivalent college course with “C” or better or eligibility as determined by COS placement procedures.

AJ 045 Terrorism and Freedom 3
Hours: 3 Lecture/Discussion
Equivalent Course: AJ 145.
This course is a study of terrorism including types, tactics and trends. The course also covers the history of freedom, its meaning today and the balance of individual rights and public order. The Patriot Act and its effects on the safety and freedom of the American citizen today are also examined. Advisory on Recommended Preparation: ENGL 251 or ENGL 261 or equivalent college course with a “C” or better, or eligibility for ENGL 1 determined by COS Placement Procedures

AJ 111 Criminal Justice Communication 3
Hours: 3 Lecture/Discussion
This course covers techniques of communicating facts, information in corrections and probation law enforcement reports, letters, memoranda, and directives. Practical experience is offered in note taking, report writing and presentation of courtroom testimony. Introduction to technology used in criminal justice and corrections.
Prerequisites: ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 001 as determined by COS placement procedures.

AJ 112 Legal Aspects of Evidence 3
Hours: 3 Lecture/Discussion
The origin, development, philosophy, constitutional and procedural basis of evidence; judicial decisions and statutory rules of evidence governing the admissibility of testimony, writings and material objects. (C-ID AJ124)

AJ 113 Juvenile Laws & Procedures 3
Hours: 3 Lecture/Discussion
This course is an examination of the origin, development, and organization of the Juvenile Justice System as it evolved in the American Justice System. The course explores the theories that focus on Juvenile Law, courts and processes, and the constitutional protections extended to juveniles administered in the American Justice System. This course is useful to students entering the juvenile justice system and those

already employed in the system. Advisories on Recommended Preparation: ENGL 251 and AJ 011 or equivalent college courses with "C" or better (C-ID AJ220)

AJ 114 Juvenile Delinquency 3
Hours: 3 Lecture/Discussion

This is an introductory course designed to explore the concept of juvenile delinquency. Emphasis is on defining delinquency, identifying delinquents, examining theories of causation, identifying institutions for delinquents and identifying community-based programs designated to prevent delinquency.

Prerequisites: ENGL 251 or equivalent college course with "C" or better or eligibility as determined by COS placement procedures.

AJ 115 Criminal Law 2 3
Hours: 3 Lecture/Discussion

An in-depth study of criminal law and criminal procedures commonly associated with California state, county and municipal law enforcement agencies. The course provides a complex analysis of both state law, as created by the legislature, and case law as defined in state and federal appellate court decisions, while focusing on established criminal justice procedures.

AJ 117 Correction/Counseling 3
Hours: 3 Lecture/Discussion

An Administration of Justice course designed for students who are either employed in a law enforcement/corrections setting or intend to pursue a career in this field, this is a foundation course which includes areas of professional ethics, psycho-diagnostic procedures in counseling, critical thinking and communication skills. Advisory on recommended preparation: English 251 or equivalent college course with "C" or better, or eligibility for English 1 as determined by COS Placement Procedures.

Prerequisites: AJ 011 or equivalent college course with "C" or better.

AJ 118 Criminal Investigation 3
Hours: 3 Lecture/Discussion

This course examines the basic principles of criminal investigation. Topics include the crime scene, physical evidence identification, collection and preservation. It will also cover investigative techniques, patterns, modus operandi, the management of the investigation and concepts related to the prevention and suppression of crime. (C-ID AJ140)

AJ 119 Criminal Identification 3
Hours: 3 Lecture/Discussion

This course provides an introduction to the role of forensics in criminal investigations. It examines the methods used in the forensic analysis of crime scenes, pattern evidence, firearms, questioned documents and controlled substances. (C-ID AJ150)

AJ 121 Introduction to Corrections 3
Hours: 3 Lecture/Discussion

An overview of history and trends in United States corrections. The course will cover the incarceration, probation and parole, including the offender's perspective. Issues relating to men, women, and juvenile offenders are explored. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID AJ 200)
Prerequisites: AJ 011 or equivalent college course with "C" or better.

AJ 123 Criminal Justice Ethics 3
Hours: 3 Lecture/Discussion

This course allows students the opportunity to explore ethical issues in the field of criminal justice through analysis and critical thinking

and apply these concepts to both their professional and personal lives.

AJ 130 Correctional Law 3
Hours: 3 Lecture/Discussion

This course provides the student with an awareness of the historical framework, concepts and precedents that guide correctional practice. Course material will broaden the individual's perspective of the corrections environment, the civil rights of prisoners and responsibilities and liabilities of corrections staff. Advisory on Recommended Preparation: AJ 121 or equivalent college course with "C" or better

Prerequisites: AJ 011 or equivalent college course with "C" or better.

AJ 219 Police Patrol Procedures 3
Hours: 3 Lecture/Discussion

Equivalent Course: AJ 110.

This course is the study of basic patrol techniques including stopping, arresting and handcuffing criminal suspects; methods of police patrol and observations; handling disputes and crisis intervention, community policing, and crimes in progress.

AGRICULTURAL MANAGEMENT

AGMT 001 Agriculture Economics 3
Hours: 3 Lecture/Discussion

The place of agriculture and farming in the economic system; basic economic concepts, and problems of agriculture; pricing and marketing problems, factors of production; and state and federal farm programs affecting the farmer's economic position.

AGMT 102 Ag Sales and Marketing 3
Hours: 3 Lecture/Discussion

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. Additional topics for exploration include self-management, communication, interpersonal skills necessary to develop managerial abilities, leadership qualities, and facilitation of teamwork within the agribusiness sector. Students will gain experience through role-play, formal sales presentations, and job shadowing. 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. Application of these concepts and methods occurs through hands-on projects developing solutions for agriculture business.

AGMT 103 Intro to Agriculture Business 3
Hours: 3 Lecture/Discussion

Provides a basic understanding of the business and economics of the agricultural industry; an introduction to the economic aspects of agriculture and their implications to the agricultural producer, consumer and the food system; management principles encountered in the day to day operation of an agricultural enterprise as they relate to the decision-making process. (C-ID: AG-AB104)

AGMT 104 Agriculture Accounting 3
Hours: 2.5 Lecture/Discussion
1.5 Lab

The study of the principles of agricultural accounting systems and types of records, their use and how to compute and use measures of earnings and cost of production to improve agribusiness efficiency. Farm income tax, Social Security, and employee payroll records also included. Application of these concepts and methods through hands-on projects developing computer-based solutions for agriculture business.

AGMT 108 AG Business Computer Apps 3
Hours: 3 Lecture/Discussion
1 Lab

Equivalent Course: AGMT 108AB.

Computer use in the workplace with emphasis on agribusiness situations. Computer applications including word processing, spreadsheets, databases, and presentation managers will be covered. Also included will be accessing information through the Internet, telecommunications, an introduction to web page design and other software appropriate to agribusiness. Students will apply these concepts and methods through hands-on projects, developing computer-based solutions for agriculture business. (C-ID AG-AB108)

AGRICULTURAL TECHNOLOGY

AGTC 103 Farm Power 3
Hours: 3 Lecture/Discussion
1 Lab

Equivalent Course: AGTC 103AC.

This course involves design principles, selection, maintenance, adjustment, and safe operation of wheel and track type tractors used in agriculture and in the construction industry. Laboratory required. (C-ID AG-MA108L)

AGTC 106 Agriculture Welding 3
Hours: 3 Lecture/Discussion
1 Lab

Equivalent Course: AGTC 106AD.

A study of the fundamental principles theories and concepts of welding used in agriculture construction, fabrication and repair. All positions, joint types, hard surfacing, cutting, brazing, SMAW, GMAW, and OFW will be studied.

AGTC 201 Intro to Power Equipment 2
Hours: 2 Lecture/Discussion
1 Lab

This beginning course is designed to introduce students to the theory and concepts of today's modern power equipment. Applications, basic operation, diagnosis and troubleshooting will be addressed in this course.

AGTC 202 Farm Equipment Construction 3
Hours: 3 Lecture/Discussion
1 Lab

Equivalent Course: AGTC 202AD.

This is a study of the basic principles for the construction of farm implements such as feeding equipment, land preparation equipment, trailers and plans. Will include developing a bill of materials and constructing implements used in the agriculture industry.

AGTC 210 Ag Project Construction 3
Hours: 3 Lecture/Discussion
1 Lab

Materials Fee: \$20.00

Equivalent Course: AGTC 210AD.

This course is designed to give students an understanding of the mechanics and technology of fabrication. This class will study the characteristics, types and costs of construction materials for their use in agriculture and industrial equipment fabrication.

AGTC 212 Welding Power Sources/Applicat 1
Hours: 1 Lecture/Discussion

Equivalent Course: AGTC 212AB, AGTC 212AD.

This is a short-term course designed to explore the many different makes and models of new welding power sources. Operation, capabilities, uses and power requirements will be covered. Students will see demonstrations, and try new welding machines.

AGTC 219 AG Design and Fabrication 3
Hours: 3 Lecture/Discussion
1 Lab

Materials Fee: \$20.00

The skills of a fabricator involve design, cost, material choices, joining processes and cost analysis. This course will address the need and the skills for the fabrication of complex agriculture projects.

AGTC 225 Outdoor Power Equipment Applic 2
Hours: 2 Lecture/Discussion
1 Lab

Equivalent Course: AGTC 215, AGTC 215AB, AGTC 215AD.

This course provides students with technical knowledge and hands-on experience in the operation and repair of small gas and diesel engines.

AGRICULTURE

AG 001 Ag, Society & The Environment 3
Hours: 3 Lecture/Discussion

The sociology of agriculture (Ag) is presented through examination of relationships between societies and their environments, economics and Ag. Emphasis is on analysis of agriculture's use of technology and the corresponding impact on the environment, economy, and society. Approved for Distance Education format.

AG 002 Environmental Conservation 3
Hours: 3 Lecture/Discussion

Equivalent Course: AG 102.

A study of the world's environment to sustain the highest quality of life. Includes the study of food and fiber systems, ecology, populations, environmental pollution, bioterrorism, and conservation of natural resources including energy, water, soils, forest, rangelands, and wildlife. Students will participate in field tours to examine natural and altered habitats and threats to society and the environment.

AG 003 Economic Entomology 3
Hours: 3 Lecture/Discussion
1 Lab

The study of the insects and mites of economic importance to agriculture, including morphology, taxonomy, identification, life cycles, hosts, habitat relationships, and control methods. Collection and labeling of specimens will be required. Laboratory required. Recommended for Pest Control Advisors' licensing. (C-ID AG-PS 144L)

AG 004 Soil Science 3
Hours: 3 Lecture/Discussion
1 Lab

This is an agricultural science course that provides basic knowledge of the physical, chemical and biological properties of soil. It includes soil-forming factors, plant-soil-water relationships, soil pH and salinity, plant nutrition, fertilizers, and soil conservation. (C-ID AG-PS128L)

AG 104 Safety in Ag Practices 1
Hours: 1 Lecture/Discussion
1 Lab
This course involves safety practices and principles, accident causation and prevention in the shop, as well as with tractors and machinery. Equipment maintenance, operation and normal safety practices common to agricultural applications will be stressed. Supervised field operation will be required. Upon satisfactory completion, students will receive a safety card which verifies passage of the course. Laboratory required.

AG 107 Ag Education Orientation 3
Hours: 3 Lecture/Discussion
1 Lab
The purpose of this course is to provide students with an overview of Agriculture Education in California. Through class instruction and field experience, students will learn the principle components of teaching agriculture; develop academic and career plans; and observe a secondary agriculture classroom. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 determined by COS Placement Procedures

AG 119 Student Success in Agriculture 1
Hours: 1 Lecture/Discussion
This course will provide students with an opportunity to learn and adopt techniques, tools, and methods that will enhance success in their agriculture major as well as college in general. In addition, information on campus resources, regulations, and requirements for graduation and/or transfer will be discussed.

AG 125 Principles of Pesticide Use 3
Hours: 3 Lecture/Discussion
Course is designed to assist persons seeking Ag Pest Control licensing and continuing their Agriculture education. Pesticide laws/regulations make this course important for those in the food and fiber industry.

AG 200 AG Leadership 1
Hours: 1 Lecture/Discussion
Equivalent Course: AG 200AD.
This course will build student leadership skills. Through the COS Agriculture Ambassador Program, students will learn team-building, public speaking, self-confidence and communication skills.

AG 211 Applied Agriculture Leadership 1
Hours: 1 Lecture/Discussion
This intermediate course in student leadership shall expand the student's team-building skills. Introduction to student parliamentary law and refinement of leadership skills.

AMERICAN SIGN LANGUAGE

ASL 001 Beg Amer Sign Lang 4
Hours: 4 Lecture/Discussion
This course is a study of fundamentals of American Sign Language. Students will learn the basics of visual/gestural communication and grammatical structures with emphasis on receptive and expressive skills, including intensive practice, finger spelling, individual evaluation, and basic information about Deaf culture. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with a grade of "C" or better or eligibility for ENGL 1 as determined by placement procedures

ASL 002 Elem Amer Sign Lang 3
Hours: 3 Lecture/Discussion
ASL 2 is the second course in a four-course series. Emphasis will be on increasing vocabulary, developing everyday conversational skills, expressing considerably more complicated needs and ideas, and becoming more adept at functioning in the deaf community. Students will also begin translating written text into ASL.
Prerequisites: ASL 001 or equivalent college course with "C" or better.

ASL 003 Inter Amer Sign Lang 3
Hours: 3 Lecture/Discussion
ASL 3 is the third course in a four-course series. Students learn to communicate at an intermediate level. Emphasis is on expanding conversation adeptly and comfortably in a wide variety of situations in the deaf community.
Prerequisites: ASL 002 or equivalent college course with "C" or better.

ASL 004 Adv Amer Sign Lang 3
Hours: 3 Lecture/Discussion
ASL 4 is the final course in this four-course series. Emphasis is placed on fluency in functional conversational skills in cultural context. Morphology and grammar of American Sign Language will be explored in depth.
Prerequisites: ASL 003 or equivalent college course with "C" or better.

ASL 110 Sign Language Interpreting 4
Hours: 4 Lecture/Discussion
Equivalent Course: ASL 110AD.
Introduction to the profession of sign language interpretation, emphasizing a professional code of ethics applied to real situations. Advanced techniques will include legal, medical, educational, mental health, religious, and deaf/blind interpreting.
Prerequisites: ASL 002 or equivalent college course with "C" or better.

ANIMAL SCIENCE

ASCI 001 Intro to Animal Science 3
Hours: 3 Lecture/Discussion
1 Lab
A scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics and epidemiology. Emphasis on the origin, characteristics, adaptations and contributions of livestock to the modern agriculture industry.

ASCI 002 Livestock Selection/Evaluation 3
Hours: 3 Lecture/Discussion
1 Lab
Equivalent Course: ASCI 002AB.
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.

ASCI 022 Horse Husbandry 3
Hours: 3 Lecture/Discussion
1 Lab
Survey of the equine industry, encompassing the evolution and role of the equine species throughout history, breed selection and development, nutrition, disease, preventative health, reproductive management, basic horsemanship, and stabling alternatives. Laboratory required.

<p>ASCI 103 Livestock Feeding & Nutrition 3 Hours: 2.5 Lecture/Discussion 1.5 Lab</p> <p>The science of animal nutrition; the fundamentals of digestion and absorption in both ruminants and non-ruminants are discussed. The nutritive value of feedstuffs as they relate to the formulation of livestock rations will be emphasized.</p>	<p>ASCI 123 Horse Production 3 Hours: 3 Lecture/Discussion 1 Lab</p> <p>Materials Fee: \$45.00</p> <p>The course is designed to give students a broad basis of information for decision making in the management and operation of a horse herd from broodmare health to foaling. Herd health, stallion handling, cost of production, reproductive efficiency and marketing will be evaluated.</p>
<p>ASCI 104 Animal Diseases & Sanitation 3 Hours: 3 Lecture/Discussion 1 Lab</p> <p>Study of common livestock diseases and fundamentals of immunity; includes the livestock technician's role in promoting animal health and the foundation of disease control programs.</p>	<p>ASCI 124 Colt Breaking 2.5 Hours: 2 Lecture/Discussion 2 Lab</p> <p>Materials Fee: \$50.00 Equivalent Course: ASCI 124AB, ASCI 124AD.</p> <p>This course is designed to give students hands-on experience in breaking horses safely and under control. The course provides the theory and concepts for appropriate decision-making for equipment and equine conditions that affect learned and innate behaviors. Considerable time will be spent on ground work and proper methodologies of equine behaviors to create a solid foundation for equine performance.</p>
<p>ASCI 110 Swine Science 3 Hours: 2.5 Lecture/Discussion 1.5 Lab</p> <p>Study of the principles and practices of purebred and commercial pork production throughout California, the United States and the World. Emphasis is on the importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing, and record keeping to ensure scientifically-based management decisions and consumer acceptance. Laboratory required.</p>	<p>ASCI 130 Equine Evaluation 3 Hours: 3 Lecture/Discussion 1 Lab</p> <p>Equivalent Course: ASCI 130AC.</p> <p>Students will study methods of communication and use analytical thinking in the appraisal of equine breeds at halter and in performance classes. Appraisals will include information about horse classes, order of placement, and organization of reasoning. Students will justify appraisals in front of an official judge. The relationship of equine anatomy and physiology on competitive performance will be considered.</p>
<p>ASCI 111 Beef Cattle Science 3 Hours: 3 Lecture/Discussion 1 Lab</p> <p>Study of the principles and practices of purebred and commercial beef cattle production; emphasis on the importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing and record keeping to ensure scientifically-based management decisions and consumer product acceptance as applied to beef cattle.</p>	<p>ASCI 140 Beginning Equitation 2.5 Hours: 2 Lecture/Discussion 2 Lab</p> <p>Equivalent Course: ASCI 120AD.</p> <p>The students will learn the proper way to catch, groom, saddle, bridle, and mount the horse. Time is also spent on learning the nomenclature of the tack for safe use of the tack for both the rider and the horse. A great deal of time is spent on the proper use of their natural-aids. Riding both bareback and under saddle, this class is designed to teach the beginning student introductory riding techniques. This course will allow students and their horses to walk/jog safely and in a controlled manner.</p>
<p>ASCI 112 Small Ruminant Science 3 Hours: 3 Lecture/Discussion 1 Lab</p> <p>Survey of sheep and goat industries; management of commercial, purebred and small farm flocks; selecting, feeding, breeding and basic care of small ruminants plus marketing of sheep, goats and their products. Laboratory required.</p>	<p>ASCI 141 Intermediate Equitation 2.5 Hours: 2 Lecture/Discussion 2 Lab</p> <p>The students will learn the proper way to catch, groom, saddle, bridle, mount, and ride the horse. The class will focus on proper natural-aids in order to correctly maneuver the horse through different gaits, training methods and obstacles. This class will allow students to lope their horses, executing proper leads and lead changes. The students will learn how to ride in a group setting safely and in a controlled manner.</p>
<p>ASCI 113 Farm Animal Biology 3 Hours: 3 Lecture/Discussion 1 Lab</p> <p>This course is an introduction to the scientific concepts of farm animal biology. The objective of the course is to familiarize students with basic biological concepts of farm animals. Laboratory exercise will include hands-on training of the anatomy and physiology of domesticated farm animals for those students seeking employment or advanced degrees in the animal sciences.</p>	<p>ASCI 240 Prin of Veterinary Assisting 3 Hours: 2.5 Lecture/Discussion 1.5 Lab</p> <p>Equivalent Course: VT 220.</p> <p>This course is designed to teach the skills that are necessary to work as an assistant in a veterinary practice. Client communications, basic anatomy, veterinary computing skills, and recognition of common diseases will be covered.</p>
<p>ASCI 117 Veterinary Terminology 3 Hours: 3 Lecture/Discussion</p> <p>Equivalent Course: VT 117.</p> <p>This course is designed to acquaint the student with veterinary medical terminology. Emphasis on anatomical, diagnostic, symptomatology, and operative terms relating to individual body systems.</p>	

ANTHROPOLOGY

ANTH 010 Cultural Anthropology 3

Hours: 3 Lecture/Discussion

Equivalent Course: ANTH 010H.

This course explores how anthropologists study and compare human culture. Cultural anthropologists seek to understand the broad arc of human experience focusing on a set of central issues: how people around the world make their living (subsistence patterns); how they organize themselves socially, politically and economically; how they communicate; how they relate to each other through family and kinship ties; what they believe about the world (belief systems); how they express themselves creatively (expressive culture); how they make distinctions among themselves such as through applying gender, racial and ethnic identity labels; how they have shaped and been shaped by social inequalities such as colonialism; and how they navigate culture change and processes of globalization that affect us all. Ethnographic case studies highlight these similarities and differences, and introduce students to how anthropologists do their work, employ professional anthropological research ethics and apply their perspectives and skills to understand humans around the globe. (C-ID ANTH120)

Prerequisites: ENGL 251 or ENGL 261 or equivalent college course with "C" or better or eligibility for ENGL 001 as determined by COS placement procedures.

ANTH 011 Biological Anthropology 3

Hours: 3 Lecture/Discussion

This course introduces the concepts, methods of inquiry, and scientific explanations for biological evolution and their application to the human species. Issues and topics will include, but are not limited to, genetics, evolutionary theory, human variation and biocultural adaptations, comparative primate anatomy and behavior, and the fossil evidence for human evolution. The philosophy of science and the scientific method serve as foundations to the course. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID ANTH110)

ANTH 012 Archaeology 3

Hours: 3 Lecture/Discussion

Equivalent Course: ANTH 112.

This course is an introduction to the study of concepts, theories, and methods of anthropological archaeology as well as a review of significant data and models that contribute to knowledge of the human past. The course includes a discussion of the history and interdisciplinary nature of archaeological research; dating techniques and methods of survey, excavation, and analysis; cultural resource management; and selected cultural sequences. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with a "C" or better, or eligibility for ENGL 1 determined by COS Placement Procedures. Approved for Distance Learning format. (C-ID ANTH150)

ARCHITECTURE

ARCH 010 Architectural Design 1 4

Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$20.00

An introductory course that emphasizes design process, concept development, and creative problem solving as the means to create architectural form and space. Design projects are presented utilizing "tactile" (by hand) two and three-dimensional visual communication and scale modeling techniques. Verbal presentations in the form of critiques are also required for the purpose of communicating designs and intended concepts.

ARCH 011 Architectural Design 2 4

Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$20.00

An advanced course that continues to explore issues initiated in the introductory course. Additionally, the course emphasizes program development, site and context analysis, precedent study, and structure as the means to create architectural form and space. Design projects are presented utilizing "tactile" (by hand) two-and three-dimensional visual communication and scale modeling techniques. Verbal presentations in the form of critiques are also required for the purpose of communicating designs and intended concepts. Advisory on Recommended Preparation: ARCH 010 or equivalent college course with "C" or better

ARCH 013 Architectural Design 3 4

Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$20.00

Equivalent Course: ARCH 112.

An introductory digital design course that continues the knowledge introduced in the tactile design courses plus emphasizes professional Building Information Modeling (BIM) software and techniques used to facilitate the architectural design process. Advisory on Recommended Preparation: ARCH 010 and ARCH 011 or equivalent college courses with a grade of "C" or better or equivalent skills as determined by division assessment

ARCH 014 Architectural Design 4 4

Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$20.00

Equivalent Course: ARCH 113.

An advanced digital design course that continues the knowledge introduced in the tactile and the introductory digital design courses plus emphasizes advanced professional Building Information Modeling (BIM) software and techniques utilized to facilitate the architectural design process. Advanced techniques include digital animation and a state team competition that involves both computer generated and physical construction of a structure. Advisory on Recommended Preparation: ARCH 010, ARCH 011 and ARCH 013 or equivalent college courses with "C" or better.

ARCH 020 Visual Communication 1 3

Hours: 2 Lecture/Discussion
2 Lab
1 Activity

Materials Fee: \$20.00

This is an introductory course of tactile (by hand) visual communication techniques applicable to the design and construction of the built environment. Drawing techniques include lettering, lines, dimensioning, diagramming, orthographic projection, axonometric projection, and perspective projection.

ARCH 021 Visual Communication 2 3

Hours: 2 Lecture/Discussion
3 Lab

Materials Fee: \$20.00

This is an advanced course of "tactile" (by hand) visual communication techniques applicable to the design and construction of the built environment. Drawing techniques include graphic symbols, architectural presentation, architectural drawing conventions; orthographic and perspective projections, rendition of value and context, color theory, figure ground ambiguity, and drawing media and techniques. Advisory on Recommended Preparation: ARCH 20 or equivalent college course with a "C" or better.

- ARCH 030 Sustainable and Green Topics 3**
Hours: 2 Lecture/Discussion
2 Lab
1 Activity
Materials Fee: \$10.00
Equivalent Course: ARCH 130.
This is an introductory course that will enable students to administer, apply, and define sustainable and green-related variables and associate them with real world situations related to the design profession. In addition this course will help the student develop an appreciation and understanding of the scientific method, and encourage an understanding of the relationships between science and other human activities.
- ARCH 070 Architecture History 1 3**
Hours: 3 Lecture/Discussion
Materials Fee: \$10.00
Equivalent Course: ARCH 170.
History of architecture from Prehistoric to Gothic periods. Pre-Columbian Americas period is also covered. The relationship between architecture and art, science, historical events, religion, society, culture, philosophy, politics, economics, and physical conditions are studied.
- ARCH 071 Architecture History 2 3**
Hours: 3 Lecture/Discussion
Materials Fee: \$10.00
Equivalent Course: ARCH 171.
History of architecture from Renaissance to 21st Century periods. The relationship between architecture and art, science, historical events, religion, society, culture, philosophy, politics, economics, and physical conditions are studied. Advisory on Recommended Preparation: ARCH 070 or equivalent college course with "C" or better
- ARCH 120 Freehand Drawing 3**
Hours: 2 Lecture/Discussion
3 Lab
Materials Fee: \$20.00
An introductory course of freehand drawing techniques applicable to the design and construction of the built environment. Freehand drawing is an integral part of the architect's design process. It is instrumental in concept development, creative problem solving, documenting and perceiving space, visualization, and observation skills. Techniques include shading, shape definition, form definition, human scale, and entourage utilizing pencil, ink, color media, and combination media.
- ARCH 121 Perspective Alternatives 3**
Hours: 2 Lecture/Discussion
2 Lab
1 Activity
Materials Fee: \$20.00
Equivalent Course: ARCH 121AC.
A study of the fundamental concepts, principles, and applications of accelerated architectural perspective and rendering techniques. Utilizing charts, the computer program SketchUp, entourage, underlayment sheets, and photographs, students will generate finished architectural renderings. This course is an invaluable career asset for people interested in architecture, illustration, building trades, and interior design. Advisory on Recommended Preparation: ARCH 20 or equivalent college course with a "C" or better
- ARCH 133 Sustainability Implementation 3**
Hours: 2.5 Lecture/Discussion
1.5 Lab
Materials Fee: \$10.00
This course will give students knowledge necessary to confront issues related to sustainability in the building industry. Advisories on Recommended Preparation: ARCH 030 and ARCH 134 or equivalent college courses with "C" or better
- ARCH 134 Sustainable Materials/Methods 3**
Hours: 2.5 Lecture/Discussion
1.5 Lab
Materials Fee: \$10.00
An introduction to the principles, materials, methods, and processes of sustainable construction, this course combines both theory and practical applications. Site visits to view various stages of construction are an integral part of the course.
- ARCH 151 Independent Study-ARCH 1 - 4**
Hours: 3 TO 12 Lab
Equivalent Course: ARCH 151AD.
The purpose of this Independent Study is to provide an opportunity for students, under the direction of an instructor, to participate in advanced individualized studies to supplement and enhance existing courses. Independent Study requires a minimum of 54 hours of academic work per unit. In addition, student must file an Independent Study form through the Admissions Office to obtain approval to enroll. Advisory on Recommended Preparation: ARCH 010 or equivalent college course with "C" or better
- ARCH 160 Construction Materials/Methods 4**
Hours: 4 Lecture/Discussion
Materials Fee: \$20.00
An introduction to the principles, materials, methods, and processes of construction. This course combines both theory and practical application. Site visits to view various stages of construction are an integral part of the course.
- ARCH 161 Architectural Detailing 3**
Hours: 2 Lecture/Discussion
3 Lab
Materials Fee: \$20.00
Equivalent Course: ARCH 161AD.
A course in architectural detailing that explores the transition from architectural ideas into built reality. Students draw architectural details with corresponding summaries using a computer assisted drafting (CAD) program. Different function, constructability, and aesthetics details are explored and then applied to various construction types. Advisory on Recommended Preparation: ARCH 160 or equivalent college course with "C" or better or equivalent knowledge and/or skills as determined by departmental assessment AND DRFT 114 or equivalent college course with "C" or better or equivalent knowledge and/or skills as determined by departmental assessment.
- ARCH 162 Conceptual Structural Analysis 3**
Hours: 3 Lecture/Discussion
Materials Fee: \$20.00
A nonmathematical investigation of structural systems and components with respect to their behavior; selection of the most appropriate structural system for various building typologies. Advisories on Recommended Preparation: ARCH 010 and ARCH 160 or equivalent college courses with "C" or better.
- ARCH 163 Construction Documents 3**
Hours: 2.5 Lecture/Discussion
1.5 Lab
Materials Fee: \$20.00
Equivalent Course: ARCH 131.
This course provides a detailed introduction to the process of construction documentation. A full set of residential construction documents

emphasizing light wood frame construction is created utilizing a computer assisted drafting (CAD) program. A residential light wood frame construction scale model is also created. Prior training in the form of advisory courses or office CAD experience is required. Advisory on Recommended Preparation: DRFT 114 AND ARCH 160 or equivalent college courses with "C" or better.

ARCH 190 Supervised Practice 1 - 3

Hours: 3 TO 9 Lab

Equivalent Course: ARCH 190AD.

Under the supervision of an instructor, selected students assist and direct students in less advanced classes. This course provides experience for students interested in teaching, counseling, and other employment volunteer situations where the student is expected to take a leadership role. Advisory on Recommended Preparation: ARCH 013 or equivalent college course with "C" or better

ARCH 251 Independent Study-ARCH 1 - 4

Hours: 3 TO 12 Lab

Equivalent Course: ARCH 251AD.

The purpose of Independent Study is to provide an opportunity for students, under the direction of an instructor, to participate in advanced individualized studies to supplement and enhance existing courses. Independent Study requires a minimum of 54 hours of academic work per unit. In addition, students must file an Independent Study form through the Admissions and Records Office. Advisory on Recommended Preparation: ARCH 010 or equivalent college course with "C" or better

ARCH 400 Architecture Supp Lrng Assist 0

Hours: 27 TO 108 Lab

Architecture Open Lab is intended to strengthen students' architecture skills and reinforce their mastery of concepts. This open entry/open exit class is linked with ARCH 10, ARCH 11, ARCH 112, ARCH 113, ARCH 20, ARCH 21, ARCH 120, ARCH 121, ARCH 70, ARCH 71, ARCH 160, ARCH 161, ARCH 162, ARCH 163.

ART	
ART Families of Courses	
Design Family	ART 006
	ART 007
	ART 032
	ART 033
Drawing Family	ART 008
	ART 009
	ART 049
	ART 050
Painting Family	ART 043
	ART 044
	ART 212
	ART 213
Digital Family	ART 023
	ART 025
	ART 130
Planographic/Offset Processes Family	ART 176
	ART 177
	ART 178
	ART 179
Printmaking Family	ART 121
	ART 122
	ART 015
	ART 016
Museum/Gallery Studies Family	ART 111
	ART 112
Research Family	ART 151
Sculpture Family	ART 141
	ART 142
	ART 066
	ART 067
Ceramics Family	ART 061
	ART 062
	ART 063
	ART 064
Glass Family	ART 119
	ART 120

ART 001 Art Appreciation 3

Hours: 3 Lecture/Discussion

ART 1 provides a general introduction to art that offers a look at works of art through the study of theory, terminology, themes, design principles, media, techniques, with an introduction to the visual arts across time and diverse cultures. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 001 as determined by COS Placement Procedures (C-ID ARTH100)

- ART 002 Art History/Ancient-Gothic 3**
Hours: 3 Lecture/Discussion
ART 2 provides an overview of western art and architecture from pre-history through the medieval period. The interrelationships between art and religion, politics, historical events, and philosophy are major foci of study. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID ARTH110)
- ART 003 Art History/Gothic-Modern 3**
Hours: 3 Lecture/Discussion
Equivalent Course: ART 003H.
This course provides an overview of art and architecture from the Renaissance to the Contemporary period. Illustrated lectures. ART 2 is NOT a prerequisite for ART 3. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement procedures (C-ID ARTH120)
- ART 004 Precol Art & Cult/Americas-Meso 3**
Hours: 3 Lecture/Discussion
A survey of the major cultures of Mesoamerica from the Early Hunters stage until the European conquest. The course uses art as a vehicle for understanding these people's philosophy, religion, politics, history, and economics. Included are the Olmec, Zapotec, Tajin, Mixtec, Maya and Aztec.
- ART 005 Precol Art&Cult/Americas-S.Ame 3**
Hours: 3 Lecture/Discussion
A survey of the major cultures of Central and South America from the Early Hunters state until the European conquest. The course uses art as a vehicle for understanding these people's philosophy, religion, politics, history, and economics.
- ART 006 Color and Design 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$10.00
Equivalent Course: ART 006A.
This is a basic course in art with a primary purpose of familiarizing the students with elements and principles of design and history. It includes the fundamental concepts of line, value, color, shape/form, space, texture, and color in two dimensions. Students will research works of art in all forms including, but not limited to, fine art, graphic art and popular media. Students will develop, through lectures and discussions, design and color projects and oral and written assignments. Students will learn design vocabulary to cultivate intellect, imagination, sensibility and sensitivity, and respond subjectively as well as objectively to aesthetic experiences. (C-ID ARTS100)
- ART 007 Advanced Color and Design 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$10.00
ART 7 is an intermediate level course on visual dynamics. Students will study what makes a strong composition in a two-dimensional artwork and explore ideas on the two-dimensional plane. This course also covers design history, color theory and will explore the effects of different color harmonies. The course will integrate art historical research and analysis of artists and art movements.
Prerequisites: ART 006 or equivalent college course with "C" or better.
- ART 008 Drawing Fundamentals 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$10.00
A basic course designed to introduce the beginning student to the fundamentals of drawing. Lecture and studio practice emphasize such fundamentals as sight measuring, perspective, shading, and direct observation. (C-ID ARTS110)
- ART 009 Drawing Composition 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$10.00
Exploration of artistic concepts, styles, and creative expression related to intermediate-level drawing, focusing on complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies. Students in this course will build on fundamental drawing skills to develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing. (C-ID ARTS205)
Prerequisites: ART 008 or equivalent college course with "C" or better.
- ART 015 Beginning Printmaking 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$30.00
This is a course in the basics of intaglio, relief and monotype printmaking. Intaglio techniques will include traditional and alternative-ground (non-toxic) etching and collagraph methods. Relief techniques covered will include traditional woodcut and/or linocut printing. Monotype processes will include black and white and/or color printing.
- ART 016 Intermediate Printmaking 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$30.00
Equivalent Course: ART 016AC.
This is an advanced course in intaglio and relief. Students are encouraged to further develop skills acquired in ART 15 or in previous printmaking experiences, and this course introduces basic techniques in multiple-plate color printing.
Prerequisites: ART 015 or equivalent college course with "C" or better.
- ART 023 Macintosh Basic for Artists 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$20.00
Equivalent Course: ART 023AD.
Introduction to fundamental concepts, practices, and theories of digital art production. Topics include integration of traditional design, color, and compositional principles with contemporary digital tools.
- ART 025 Digital Imaging for Artists 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$20.00
Equivalent Course: ART 025AD.
This course enables visual artists to explore digital image making from techniques that will provide the ability to design for artistic expression, for commercial print and web output. Macintosh computers and appropriate state-of-the-art imaging software will be used.

ART 032	Beginning 3-D Design	3	ART 050	Intermediate Figure Drawing	3
Hours:	1.5 Lecture/Discussion 4.5 Lab		Hours:	1.5 Lecture/Discussion 4.5 Lab	
Materials Fee:	\$30.00		Materials Fee:	\$10.00	
Equivalent Course: ART 032AD, ART 132AD.			Equivalent Course: ART 150.		
Introduction to the concepts, applications and historical references related to three-dimensional design and spatial composition, including the study of the elements and organizing principles of design as they apply to three-dimensional space and form. Development of a visual vocabulary for creative expression through lecture presentations and use of appropriate materials for non-representational three-dimensional projects. (C-ID ARTS101)			Continued study in drawing the human figure from direct observation with an exploration of various media. Prerequisites: ART 049 or equivalent college course with "C" or better.		
ART 033	Intermediate 3-D Design	3	ART 061	Beg. Handbuilding Ceramics	3
Hours:	1.5 Lecture/Discussion 4.5 Lab		Hours:	1.5 Lecture/Discussion 4.5 Lab	
Materials Fee:	\$30.00		Materials Fee:	\$30.00	
Equivalent Course: ART 133.			Equivalent Course: ART 017AD.		
Students will expand design and application principles of three-dimensional design with a more complex exploration into concept, materials and physics related to design, including more advanced spacial construction techniques, as well as an increased utilization of surroundings. Students gain increased experience solving 3-D problems. This course is appropriate for all students planning to major in studio art. Prerequisites: ART 032 or equivalent college course with "C" or better.			Introduction to ceramic materials, concepts and processes including basic design principles, creative development, hand-building, throwing, glaze techniques, firing and ceramic terminology. The course covers aesthetics and creative development of clay objects examining historical, contemporary and personal modes of expression across cultures. (C-ID ARTS230)		
ART 043	Beginning Studio Painting	3	ART 062	Interm. Handbuilding Ceramics	3
Hours:	1.5 Lecture/Discussion 4.5 Lab		Hours:	1.5 Lecture/Discussion 4.5 Lab	
Equivalent Course:	ART 013AD.		Materials Fee:	\$30.00	
Introduction to principles, elements, and practices of painting. Focus on exploration of painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter. Advisory on Recommended Preparation: ART 006 or equivalent college course with "C" or better (C-ID ARTS210)			Equivalent Course: ART 162.		
Students will receive intermediate instruction on the fundamentals of ceramics and glass as well as more complex hand built clay construction techniques, studio design, production techniques and firing. Prerequisites: ART 061 or equivalent college course with "C" or better.			ART 063	Beg. Wheel Thrown Ceramics	3
ART 044	Intermediate Studio Painting	3	Hours:	1.5 Lecture/Discussion 4.5 Lab	
Hours:	1.5 Lecture/Discussion 4.5 Lab		Materials Fee:	\$30.00	
Equivalent Course:	ART 144.		Equivalent Course: ART 018AD.		
This course involves further study of oil painting techniques where emphasis on focused inquiry of formal design elements will be addressed through individualized creative exploration of subject matter and content. Both representational and abstract painting approaches will be conducted. Recommended for art majors. Prerequisites: ART 006 and ART 008 and ART 043 or equivalent college courses with "C" or better.			This course is an overview study of materials, methods and design of ceramics with the primary emphasis on utilization of the potter's wheel. This course is designed to develop growth and stimulate individual creative expression within the ceramic medium. Advisory on Recommended Preparation: ART 061 or equivalent college course with "C" or better		
ART 049	Beginning Figure Drawing	3	ART 064	Interm. Wheel-Thrown Ceramics	3
Hours:	1.5 Lecture/Discussion 4.5 Lab		Hours:	1.5 Lecture/Discussion 4.5 Lab	
Materials Fee:	\$10.00		Materials Fee:	\$30.00	
Equivalent Course: ART 010AD.			Equivalent Course: ART 164.		
Introduction to drawing the human figure from observation using a wide variety of drawing media and techniques. Topics include an introduction to human anatomy and the historical and contemporary roles of figure drawing in the visual arts. Students in this course will learn both descriptive and interpretive approaches to drawing the figure. (C-ID ARTS200) Prerequisites: ART 008 or equivalent college course with "C" or better.			This course presents an involved study of the materials, methods and finishing processes of ceramics forms with the emphasis on use of the potter's wheel. This course is designed to increase growth and further stimulate personal expression within the ceramic medium. Prerequisites: ART 063 or equivalent college course with "C" or better.		
ART 066	Beginning Sculpture	3	Hours:	1.5 Lecture/Discussion 4.5 Lab	
Hours:	1.5 Lecture/Discussion 4.5 Lab		Materials Fee:	\$30.00	
Materials Fee:	\$30.00		Equivalent Course: ART 011AD.		
Introduction to three-dimensional sculptural principles, techniques and concepts utilizing a wide range of materials and practices. Various sculpture methods are practiced with attention to creative self-expression and historical context.			Introduction to three-dimensional sculptural principles, techniques and concepts utilizing a wide range of materials and practices. Various sculpture methods are practiced with attention to creative self-expression and historical context.		

- ART 067 Intermediate Sculpture 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$30.00
Equivalent Course: ART 167.
This course is designed to develop knowledge and skills regarding both historical and contemporary sculptural design concepts by introducing alternative materials such as fiber, plastic, stones, and metals. The emphasis in this course is advanced design and fabrication techniques and personal expression through a wide range of possible applications.
Prerequisites: ART 066 or equivalent college course with "C" or better.
- ART 111 Beginning Gallery Exhibition 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Equivalent Course: ART 111AD.
This course covers: the theory and technique of the proper presentation of art works; the exhibition of student, local and national professional artists' work; the examination and analysis of exhibition techniques in major art galleries and museums in California. This course meets four hours per week, 70 hours over the course semester at a time that will be announced (TBA).
- ART 112 Interm. Gallery Exhibition 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
This course is furthering development of skills in current gallery practices and standards in galleries and museums. The students will actively participate with installing and dismantling exhibitions, exhibition design and curatorial practices, and gaining further experience in being a docent. An overview of employment opportunities within galleries and museums will be addressed. This course meets four hours per week, 70 hours over the course semester at a time that will be announced (TBA).
Prerequisites: ART 111AD or ART 111 or equivalent college course with "C" or better.
- ART 119 Beginning Stained Glass Design 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$30.00
Equivalent Course: ART 119AD.
This course is designed to familiarize students with the art of stained glass through the copper foil technique. This includes exploration of design sources as well as the study of fabrication and embellishment techniques.
- ART 120 Intermediate Stained Glass 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$30.00
This course is designed to familiarize students with more advanced techniques of stained glass through the copper foil technique. This includes an involved exploration of more complex designs, multiple glazing and three dimensional applications, as well as more complex fabrication and embellishment techniques.
Prerequisites: ART 119 or equivalent college course with "C" or better.
- ART 121 Beginning Screen Printing 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$30.00
Equivalent Course: ART 121AC.
Students will study the history and technique of screen-printing processes, including traditional serigraphic printmaking; reductive, handmade stencils; and digital/photographic methods on a variety of substrates, including paper, fabric and glass.
- ART 122 Intermediate Screen Printing 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$30.00
This course is designed to present intermediate techniques, methods, and concepts of screen printing as a fine art form, with an emphasis on individual development/personal direction of imagery and content in screen printing. All techniques will emphasize an experimental approach toward screen printing production, while also further developing an awareness of the traditional aspects of the medium, such as the significance of layering, appropriation, the multiple in art, edition work, and collaborative printing.
Prerequisites: ART 121 or equivalent college course with "C" or better.
- ART 130 Digital Printmaking 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$30.00
Equivalent Course: ART 130AC.
Digital Printmaking will teach art students how to integrate digital technology with traditional forms of print techniques. Students will choose to work with one of the four major print processes. This course is designed for art students to ensure success when transferring to a UC, CSU, or private art schools. Advisory on Recommended Preparation: ART 023 or equivalent college course with "C" or better
- ART 141 Beginning Studio Arts 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$30.00
Equivalent Course: ART 101AD.
This course provides an emphasis on exploratory experiences using a wide variety of art media, techniques and applications. This course benefits liberal arts majors, teaching majors, art majors and everyone interested in crafts. No experience in art or crafts is necessary. (C-ID ARTS280)
- ART 142 Intermediate Studio Arts 3**
Hours: 1.5 Lecture/Discussion
4.5 Lab
Materials Fee: \$30.00
This course provides an intermediate experience with, and the use of, a wide variety of art media, techniques and applications including an endless possibility of materials and advanced fabrication techniques. This course benefits art majors, teaching majors and anyone interested in studio arts.
Prerequisites: ART 141 or equivalent college course with "C" or better.
- ART 151 Independent Study-ART 1 - 4**
Hours: 3 TO 12 Lab
Equivalent Course: ART 151AD.
The purpose of Independent Study is to provide an opportunity for students, under the direction of an instructor, to participate in concentrated, individualized studies. Independent Study requires a minimum of 52.5 hours of academic work per unit. In addition, students must file an Independent Study form through the Admissions and Records Office. Students are allowed to register for Independent Study only after all courses in their area of emphasis have been taken with a grade of "C" or better.

ART 176 Beginning Stone Lithography 3
 Hours: 1.5 Lecture/Discussion
 4.5 Lab
Materials Fee: \$30.00
Equivalent Course: ART 128AD.
 Students will study the history and technique of lithographic processes, including traditional and contemporary methods. This course is designed for beginning lithographers. Students will learn how to prepare, draw, and paint on lithographic limestone, to create multiple prints. Students will be challenged with techniques appropriate to their skill level. Advisory on Recommended Preparation: ART 8 or equivalent college course with "C" or better

ART 177 Intermediate Stone Lithography 3
 Hours: 1.5 Lecture/Discussion
 4.5 Lab
Materials Fee: \$30.00
 This course is designed for lithographers to learn the basics of color lithography. Students will learn how to prepare their images to create and draw for color lithographs. Using demonstrations and discussions, students will learn the various techniques and mediums needed to produce color prints. Students will be challenged with techniques appropriate to their skill level.
Prerequisites: ART 176 or equivalent college course with "C" or better.

ART 178 Beginning Plate Lithography 3
 Hours: 1.5 Lecture/Discussion
 4.5 Lab
Materials Fee: \$30.00
Equivalent Course: ART 129AD.
 Beginning Plate Lithography will introduce students to the medium of plate lithography by exploring non-toxic waterless lithography techniques. Students will learn how to prepare the plates and draw and process them to create imagery. Students will be challenged with techniques appropriate to their skill level.

ART 179 Intermediate Plate Lithography 3
 Hours: 1.5 Lecture/Discussion
 4.5 Lab
Materials Fee: \$30.00
 Intermediate Plate Lithography will introduce students to the medium of plate lithography by exploring traditional aluminum plate lithographic techniques. Students will learn how to prepare the plates and draw and process them to create their imagery. Students will be challenged with techniques appropriate to their skill level.
Prerequisites: ART 178 or equivalent college course with "C" or better.

ART 212 Beginning Photorealism 3
 Hours: 1.5 Lecture/Discussion
 4.5 Lab
Equivalent Course: ART 212AD.
 Exploration and practice of the historical and contemporary use of photography as the subject and an aid to painting. Beginning and advanced work in oils and/or acrylics. Advisory on Recommended Preparation: ART 006 and ART 008 or equivalent college courses with "C" or better

ART 213 Intermediate Photorealism 3
 Hours: 1.5 Lecture/Discussion
 4.5 Lab
 This course involves further studio exploration and practice of the historical and contemporary use of photography as the subject and an aid to painting. Emphasis will be placed on the individual's focus on subject matter and content. Advisory on Recommended Preparation: ART 006 and ART 008 or equivalent college courses with "C" or better
Prerequisites: ART 212 or equivalent college course with "C" or better.

ASTRONOMY

ASTR 010 Introduction to Astronomy 3
 Hours: 3 Lecture/Discussion
 A survey course covering the basic concepts, theories, history, and laws of astronomy. Emphasis will be given to motions of the moon, sun, and planets; use of astronomical instruments; study of stellar spectra; properties of the stars, and stellar evolution. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 determined by COS Placement Procedures and MATH 200 or equivalent college course with "C" or better or eligibility for MATH 230 as determined by COS Placement Procedures.

AUTOMOTIVE TECHNOLOGY

AUTO 130 Intro to Automotive Technology 3
 Hours: 2.5 Lecture/Discussion
 1.5 Lab
Equivalent Course: AUTO 100.
 AUTO 130 is the first course in the automotive program and is a prerequisite for all automotive core courses. Topics include the development of shop skills, safe working practices and the correct use of tools in an automotive shop environment.

AUTO 136 Automotive Electrical Systems 4
 Hours: 3 Lecture/Discussion
 3 Lab
Equivalent Course: AUTO 101.
 This is a study course of the theory, design and operation of the complete automotive electrical and electronic systems. Instruction and lab cover the inspection, testing and repair of the total electrical system and component parts.
Prerequisites: AUTO 130 or equivalent college course with "C" or better (AUTO 130 may be taken concurrently).

AUTO 231 Automotive Engine Systems 4
 Hours: 3 Lecture/Discussion
 4 Lab
Equivalent Course: AUTO 131.
 Instruction in theory, construction and repair of today's automotive gasoline engine. Formerly AUTO 131.
Prerequisites: AUTO 130 and AUTO 136 or equivalent college courses with "C" or better (AUTO 130 and/or AUTO 136 may be taken concurrently).

AUTO 232 Auto Automatic Transmissions 4
 Hours: 3 Lecture/Discussion
 3 Lab
Equivalent Course: AUTO 132.
 Instruction in automatic transmission torque converter theory and operation, hydraulic system function, planetary gear theory and application, and the diagnosis and repair of these systems. Formerly 132.
Prerequisites: AUTO 130 and AUTO 136 or equivalent college courses with "C" or better.

AUTO 233 Automotive Power Train Systems 4
 Hours: 3 Lecture/Discussion
 3 Lab
Equivalent Course: AUTO 133.
 Instruction in manual transmission theory and power flow in today's automobile power train systems including clutch systems, drive shafts, differential and drive axle operations.
Prerequisites: AUTO 130 and AUTO 136 or equivalent college courses with "C" or better (AUTO 130 and/or AUTO 136 may be taken concurrently).

AUTO 234 Auto Suspension/Steering System 4
Hours: 3 Lecture/Discussion
3 Lab

Equivalent Course: AUTO 134.

Instruction in theory and maintenance of automotive suspension and steering systems, including steering inspection and wheel alignment procedures.

Prerequisites: AUTO 130 and AUTO 136 or equivalent college courses with "C" or better (AUTO 130 and/or AUTO 136 may be taken concurrently).

AUTO 235 Automotive Brake Systems 4
Hours: 3 Lecture/Discussion
3 Lab

Equivalent Course: AUTO 135.

This course will provide the student with the technical skills and knowledge to diagnose, test, service and repair automotive brake systems. Instruction in hydraulics, pneumatics, anti-lock braking systems, associated electronics and the safe and proper use of brake systems tools and equipment for service and repair procedures will be included.

Prerequisites: AUTO 130 and AUTO 136 or equivalent college courses with "C" or better (AUTO 130 and/or AUTO 136 may be taken concurrently).

AUTO 237 Automotive Air Conditioning 4
Hours: 3 Lecture/Discussion
3 Lab

Equivalent Course: AUTO 137.

This is a course in the design, theory and operation of the automotive heating and air conditioning systems. Instruction and lab cover the systems components, servicing, testing, repair and retrofit. Formerly AUTO 137.

Prerequisites: AUTO 130 and AUTO 136 or equivalent college courses with "C" or better.

AUTO 238 Automotive Engine Performance 4
Hours: 3 Lecture/Discussion
3 Lab

Equivalent Course: AUTO 138.

This is an advanced study course of engine performance, drivability and diagnostics. Instruction will cover electrical and electronics systems, fuel delivery systems, computer onboard diagnostics, advanced ignition systems, emission control systems and other engine related topics. Formerly AUTO 138

Prerequisites: AUTO 130 and AUTO 136 or equivalent college courses with "C" or better.

AUTO 243 Auto Adv. Computer Controls 5
Hours: 4.5 Lecture/Discussion
2 Lab

Equivalent Course: AUTO 143.

This is an advanced study course of engine electrical and electronic computer control systems. The instruction will cover advanced theory, design and operation of computer control and on-board diagnostics systems, advanced fuel and ignition systems, and advanced test equipment.

Prerequisites: AUTO 130 and AUTO 136 or equivalent college courses with "C" or better (AUTO 130 and/or AUTO 136 may be taken concurrently).

AUTO 263 Emissions & Diagnostics Lvl 1 4
Hours: 3.5 Lecture/Discussion
1.5 Lab

Equivalent Course: AUTO 263AD.

This is a certification course designed to prepare students to take the Bureau of Automotive Repair's Smog Check Technician licensing examination. Any student may take this course, but may not be certified to take the State licensing examination. Advisory on Recommended Preparation: AUTO 243 or equivalent college course with "C" or better or equivalent knowledge and/or skills as determined by departmental assessment

AUTO 264 Emissions & Diagnostics Lvl 2 2
Hours: 1.5 Lecture/Discussion
1.5 Lab

Equivalent Course: AUTO 264AD.

This is a certification course designed to prepare students to take the Bureau of Automotive Repair Smog Check Technician licensing examination. It will cover the BAR 97 Transition Training, Advanced Emissions Diagnostics Training and the Enhanced Area Inspection and Testing procedure training. Advisories on Recommended Preparation: AUTO 243 or equivalent college course or equivalent knowledge and/or skills as determined by departmental assessment

BIOLOGY

BIOL 001 Principles of Biology 1 5
Hours: 3 Lecture/Discussion
6 Lab

This first semester of a course sequence, intended for majors, covers: major biological principles and applications of prokaryotic and eukaryotic cell structure and function, biological molecules, homeostasis, cell reproduction and its controls, molecular genetics, classical/Mendelian genetics, cell metabolism including photosynthesis and respiration, and cellular communication. It includes a survey of the biology and diversity of organisms and examines the basic principles governing evolution of organisms and interactions between organisms and the environment. The course sequence emphasizes classification, structure and function of organisms, ecological principles, and mechanisms of evolution. The philosophy of science, methods of scientific inquiry and experimental design are foundational. Advisory on Recommended Preparation: CHEM 001 or 020 or equivalent college course with "C" or better. (C-ID BIOL135S. BIOL135S includes BIOL 001 and 002.)

Prerequisites: MATH 230 or equivalent college course with "C" or better or eligibility as determined by COS placement procedures.

BIOL 002 Principles of Biology 2 5
Hours: 3 Lecture/Discussion
6 Lab

This course is the second of a two-course, introductory sequence for biology majors. Topics include the taxonomy and systematics of organisms with an emphasis on prokaryotes, protists, fungi, algae and plants, the principles and governing dynamics of evolution, ecological principles, population genetics, and the structure, biochemistry and ecology of plants. Other topics include biotechnology, field ecology and microbiology. The philosophy of science, methods of scientific inquiry and experimental design are foundational. Field trip experiences are a component of this course. Advisory on Recommended Preparation: CHEM 001 or equivalent college course with "C" or better AND CHEM 020 or equivalent college course with "C" or better. (C-ID BIOL135S. BIOL135S includes BIOL 001 and 002.)

Prerequisites: BIOL 001 or equivalent college course with "C" or better.

BIOL 020 **Frontiers in Biology** **4**
Hours: 3 Lecture/Discussion
 3 Lab

Equivalent Course: BIOL 020H.

A general principles course for transfer students who are not life-science majors. The principles of homeostasis, genetics, energy flow, evolution, reproduction and ecology will be used to explore contemporary topics in biology. Note: Some four-year institutions will not award credit for this class if it is taken after BIOL 1 (biology majors). Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better, or eligibility for ENGL 1 determined by COS Placement Procedures.

BIOL 021 **Plant Biology** **3**
Hours: 2 Lecture/Discussion
 3 Lab

This is a general principles course in plant biology for the non-biology major. The principle topics included are general characteristics of plants, plant survey, methods of classification and nomenclature, plant structure and function, growth and development, reproduction and genetics, and ecology. This course is not open to students who have received credit in BIOL 2. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better, or eligibility for ENGL 1 as determined by COS placement procedures.

BIOL 022 **Animal Biology** **3**
Hours: 2 Lecture/Discussion
 3 Lab

This is a general principles course in animal biology designed to help meet a laboratory requirement for transfer students who are not life science majors. The principles of the scientific method, evolution and adaptation, bioenergetics, homeostasis, genetics, and ecology are emphasized in class and field activities. It is not open to students who have received credit for BIOL 1. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 determined by COS Placement Procedures.

BIOL 025 **Human Ecology** **3**
Hours: 3 Lecture/Discussion

A survey of ecological principles and the historic and modern impact of human societies as agents of ecosystem modification. Topics include ecosystem structure and function. Also covered are modern human societies and the short-range and projected long range results of their activities in such areas as population, food, and agriculture, the survival of plant and animal species, the use of energy and mineral resources, and the pollution of air, water and land are emphasized in classroom and field activities. Field trips are a required part of this course.

BIOL 030 **Human Anatomy** **4**
Hours: 3 Lecture/Discussion
 3 Lab

BIOL 30 covers the structural organization of the human body: gross and microscopic structures of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. This is a general survey course designed to acquaint the beginning student with the anatomical principles necessary to understand the basic structure and organization of the human body. This course is designed primarily for students entering the allied health fields. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better, or eligibility for ENGL 1 as determined by COS Placement Procedures. (C-ID BIOL110B)

BIOL 031 **Human Physiology** **4**
Hours: 3 Lecture/Discussion
 3 Lab

Study of the physiological principles, functions, integration and homeostasis of the human body at the cellular, tissue, organ, organ system and organism level: integumentary system, bone, skeletal, smooth and cardiac muscles, nervous system, sensory organs, cardiovascular system, lymphatic and immune systems, respiratory system, urinary system, digestive system, endocrine system, and reproductive system. Laboratory experiments and exercises will reinforce theories and processes described in lecture and introduce students to basic physiological scientific investigation. This course is primarily intended for Nursing, Allied Health, and other health related majors. Advisory on Recommended Preparation: CHEM 020 or equivalent college course with "C" or better (C-ID BIOL120B)

Prerequisites: BIOL 030 or equivalent college course with "C" or better.

BIOL 040 **General Microbiology** **4**
Hours: 3 Lecture/Discussion
 3 Lab

This course is designed for students entering the health sciences, home economics, as well as the life sciences. This course covers microbial diversity, classification, identification, growth, control measures, disease interactions, genetics, and applied microbiology. Advisory on Recommended Preparation: CHEM 020 and BIOL 020 or equivalent college courses with "C" or better

BUSINESS

BUS 018 **Business Law** **4**
Hours: 4 Lecture/Discussion

Recommended for most business majors, this course includes an introduction to the U.S. legal system; the relation of ethics to law; administrative, criminal, tort, and labor law; and legal aspects of international trade. Emphasis is on the study of the law of contracts and agency, with case studies, discussion, and analysis. (C-ID BUS120)

BUS 020 **Business Statistics** **3**
Hours: 3 Lecture/Discussion

BUS 20 is intended for business administration majors or anyone who wishes to gain an understanding of elementary data analysis, probability, and statistics. It introduces students to the use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests, central tendency and dispersion measures; index numbers (CPI, deflators); time series analysis (trends, seasonal variations); probability theory; probability and sampling distributions (normal, exponential, binomial, Poisson); central limit theorem; and application of technology for statistical analysis, including the interpretation of the relevance of the statistical findings. (C-ID MATH110)

Prerequisites: MATH 230 or equivalent college course with "C" or better or eligibility as determined by COS placement procedures.

BUS 082 **Introduction to Business** **3**
Hours: 3 Lecture/Discussion

A survey in business providing a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to affect a business organization's policy and practices within the U.S. and a global society. Demonstrates how these influences impact the primary areas of business including: organizational structure and design; leadership, human resource management, organized labor practices; marketing; organizational communication; technology; entrepreneurship; legal, accounting, financial practices; the stock and securities market; and

therefore affect a business' ability to achieve its organizational goals. (C-ID BUS110)

BUS 100 Career Strategies 3
Hours: 3 Lecture/Discussion
This course is designed to increase a student's understanding of researching jobs and organizations, employment interviewing, and professional development, including communication skills. Networking with the business community is an integral component of this course.

BUS 112 Public Speaking for Business 4
Hours: 4 Lecture/Discussion
Equivalent Course: COMM 112, SPCH 112.
This is an introductory course in public speaking and presentation software. This course covers a variety of formal public speaking styles and formats. Students will also learn how to create a computerized slide show, as well as speaker outlines/notes and audience handouts to assist in their presentations. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better, or eligibility for ENGL 1 determined by COS Placement Procedures and BUS 270 or equivalent college course with "C" or better.

BUS 119 Quantitative Methods 3
Hours: 3 Lecture/Discussion
This is an introductory course for Business Administration majors designed to develop an appreciation of the value of quantitative methods in decision making by formulation and solution of common business problems. Topics include linear models, matrix algebra, linear programming, finance, and an introduction to probability. (C-ID MATH130)
Prerequisites: MATH 230 or equivalent college course with "C" or better or eligibility as determined by COS placement procedures.

BUS 170 Introduction to Sales 3
Hours: 3 Lecture/Discussion
A practical course in sales principles and practices that emphasizes career opportunities, the current market environment, contemporary sales techniques, and the sales promotion. Required for the marketing certificate.

BUS 174 Marketing Principles 3
Hours: 3 Lecture/Discussion
This course introduces students to the fundamentals of marketing by exposing them to planning, producing, storing, promoting, selling, and distributing commodities. In addition, the student will focus on the importance of market research, market segmentation, consumer behavior, marketing plans, and advancements in e-business and the internet. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 determined by COS Placement Procedures

BUS 181 Intro to Entrepreneurship 3
Hours: 3 Lecture/Discussion
Business 181 develops an understanding of complex tasks faced by individuals engaged in entrepreneurial activities. It identifies the methods for developing a business idea, the process of starting a business, how to acquire resources, and the key parts of a business plan.

BUS 184 Business Communications 3
Hours: 3 Lecture/Discussion
This course introduces students to the foundations of communication in a business setting. Students are exposed to various topics related to interpersonal and group communication within the context of applications in an office or virtual office setting. Students will develop skills in the forms of written communication, including memos, emails,

business letters, and reports. Communication ethics and cross-cultural communications are also explored. Upon completing the course, students will have an awareness of their personal communication style and be able to identify areas for further exploration of communication as a business skill. Advisory on Recommended Preparation: BUS 293 or ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 determined by COS Placement Procedures and BUS 270 or equivalent college course with "C" or better

BUS 185 Ethics in Business & Industry 3
Hours: 3 Lecture/Discussion
The focus of this class will be on the application of ethics to contemporary issues occurring in today's business and industry. Students will also be exposed to the theoretical approaches to ethics.

BUS 188 Human Relations in Business 3
Hours: 3 Lecture/Discussion
Students will become acquainted with those accepted patterns of behavior and performance standards which will enhance their skills in the workplace and in life. The student will be exposed to management techniques applicable to his/her business, domestic, personal, and social lives. Exploration of issues including diversity, leadership, teamwork, motivation, employee development, stress management, physical and emotional health, wellness, ethics, decision making and problem solving toward the goal of improving interpersonal effectiveness on the job. This course is a general education course which will be of value to both the business and non-business student.

BUS 230 Supervision/Mgmt/1st Line Supr 3
Hours: 3 Lecture/Discussion
This course is designed to provide students with an overview of supervision and management skills. This course may be used for new supervisors or as a training course for both non-supervisory and active supervisory personnel.

BUS 268 Electronic Calculating 2
Hours: 2 Lecture/Discussion
This course introduces the students to the ten-key pad. Students will develop speed and accuracy using the touch method, review the principles of arithmetic, and transfer the skills to the solution of business problems. Advisory on Recommended Preparation: BUS 295 or MATH 360 or equivalent college course with "C" or better

BUS 270 College Keyboarding Level 1 3
Hours: 2.5 Lecture/Discussion
2 Lab
This course is designed to help students develop strong keyboarding skills and specific word processing and general computer application skills.

BUS 271 College Keyboarding Level 2 3
Hours: 2.5 Lecture/Discussion
2 Lab
Business 271 is an intermediate keyboarding course with emphasis on improving speed and accuracy related to advanced business correspondence, forms, tables, manuscripts, and production keyboarding. Advisory on Recommended Preparation: BUS 270 or equivalent college course with "C" or better or equivalent knowledge and/or skills as determined by departmental assessment

BUS 293 Business English 4
Hours: 4 Lecture/Discussion
This course is designed to help students become more proficient in and more comfortable with the use of the English language. It provides a complete review of and practice in using the fundamentals of English grammar: parts of speech, spelling, sentence structure, punctuation, and vocabulary building. Advisory on Recommended Preparation: ENGL 360 or equivalent college course with "C" or better or eligibility for ENGL 251 as determined by COS Placement Procedures.

BUS 295 Business Mathematics 3
Hours: 3 Lecture/Discussion
A broad course designed to expose students to a wide variety of business computations and applications, including percentages, discounts, markups and markdowns, simple interest, payroll, taxes, commissions, banking, business statistics, and the applied use of algebra in solving business problems. Advisory on Recommended Preparation: MATH 360 or equivalent college course

BUS 297 Personal Finance 3
Hours: 3 Lecture/Discussion
This course is open to both business and non-business majors and provides an overview of the elements necessary for effective personal financial planning. Topics include the time value of money; managing your money; managing your credit; borrowing money; personal financial statements; tax concepts; investments; large purchases such as a home or vehicle; life, health, and other types of insurance; retirement planning and estate planning.

BUS 360 Elementary Keyboarding 1
Hours: .5 Lecture/Discussion
2 Lab

Equivalent Course: BUS 360AC.

This course introduces students to the computer keyboard. Students will use the touch method to key letters, numbers, symbols, and the numeric keypad.

CHEMISTRY

CHEM 001 General Chemistry 1 5
Hours: 3 Lecture/Discussion
6 Lab

A course for majors and pre-professionals involving the fundamental theories and laws of chemistry. Topics include stoichiometry, atomic structure, bonding theories, ionic reactions and properties of gases. Chemistry prerequisite may be waived with one year of high school chemistry with a "C" or better. (C-ID CHEM110; C-ID CHEM120S includes CHEM 001 and 002.)

Prerequisites: (CHEM 020 or CHEM 253) and (MATH 230 or equivalent college courses with "C" or better or eligibility for MATH 021 as determined by COS placement procedures.)

CHEM 002 General Chemistry 2 5
Hours: 3 Lecture/Discussion
6 Lab

A course for majors and pre-professionals involving the fundamental theories and laws of chemistry. Topics include liquids, solids, solutions, kinetics, acid/base theories, acid/base equilibrium, solubility and complex equilibrium, thermodynamics and electrochemistry. (C-ID CHEM120S - includes CHEM 001 AND 002.)

Prerequisites: CHEM 001 or equivalent college course with "C" or better.

CHEM 012 Organic Chemistry 1 5
Hours: 3 Lecture/Discussion
6 Lab

This is the first semester of a comprehensive study of organic chemistry. This course, taught at the sophomore level, is primarily for chemistry or biochemistry and biology majors, premedical, pre-dental students, pre-pharmacy and medical technicians. Emphasis is on structural and functional group chemistry studied from a synthetic and mechanistic point of view. Topics include: nomenclature, stereochemistry, free radical processes, structure, bonding, hybridization of carbon compounds, basic elimination and substitution reactions, introductory infrared and nuclear magnetic resonance spectroscopy. The course includes a laboratory use of micro/macro methods and techniques, synthesis and instrumentation. Formerly CHEM 12 and 12L. (C-ID CHEM150; C-ID CHEM160S includes CHEM 012 AND 013.)

Prerequisites: CHEM 002 or equivalent college course with "C" or better.

CHEM 013 Organic Chemistry 2 5
Hours: 3 Lecture/Discussion
6 Lab

This is a continuation of CHEM 12, a comprehensive study of organic chemistry. The course, taught at a sophomore level, is primarily for chemistry, biochemistry and biology majors, premedical, pre-dental, prepharmacy students and medical technicians. Emphasis is on structural and functional group chemistry studied from a synthetic and mechanistic point of view. Topics include: reactions of aromatic compounds, condensations, natural products chemistry, introductory bio-chemistry, mass spectrometry and ultraviolet/visible spectroscopy. The course includes a laboratory use of micro/macro methods and techniques, synthesis and instrumentation. (C-ID CHEM160S - includes CHEM 012 AND 013)

Prerequisites: CHEM 012 or equivalent college course with "C" or better.

CHEM 020 Intro to General Chemistry 4
Hours: 3 Lecture/Discussion
3 Lab

CHEM 20 is a one semester transferable college chemistry course designed to meet the needs of allied-health and non-science majors. The course is a study of the fundamental theories and laws of chemistry. The laboratory portion of the course involves experimentation and drawing conclusions from data. Advisory on Recommended Preparation: CHEM 253 or equivalent college course with "C" or better (C-ID CHEM101)

Prerequisites: MATH 200 or equivalent college course with "C" or better or eligibility for MATH 230 as determined by COS placement procedures.

CHEM 021 Organic/Biological Chemistry 4
Hours: 3 Lecture/Discussion
3 Lab

CHEM 021 is the second semester of a full year college chemistry course which meets the needs of the science-related major. Content focuses on structural configurations, properties and reactions of organic and biochemical compounds. Both qualitative and quantitative aspects of these are part of lecture and laboratory. (C-ID CHEM102)

Prerequisites: CHEM 020 or equivalent college course with "C" or better.

CHEM 253 Introduction to Chemistry 3
Hours: 3 Lecture/Discussion

This is a one-semester elementary class for students who have never taken high school chemistry or whose previous work in chemistry did not prepare them for CHEM 20. The course will prepare students for success in CHEM 20 by giving them a basic background in matter, energy,

chemical reactions, measurements, formula writing, nomenclature, chemical calculations and a review of elementary algebra. Advisory on Recommended Preparation: MATH 200 and ENGL 251 or equivalent college courses with "C" or better

CHILD DEVELOPMENT

CHLD 039 Child Development-DS 1 3
Hours: 3 Lecture/Discussion

This course is a study of the principles of both typical and atypical human development from conception through adolescence. The course content focuses on physical, cognitive, social, and emotional domains of development. There will be an emphasis on the interactions between nature and nurture. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. This course qualifies for an AS Degree, COS Vocational Certificate, the California Development Permit and is transferable. This course is required to work in Title 22 child care facilities. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID CDEV100)

CHLD 042 Child, Family & Society-DS2 3
Hours: 3 Lecture/Discussion

The study of the social development of children with emphasis on the interactions among and between children, families, and community systems. The processes of socialization and identity development will be highlighted. This course qualifies for an AS degree, COS Vocational Certificate, the California Child Development Permit and is transferable. This course is mandatory to work in Title 22 child care facilities. (C-ID CDEV110)

CHLD 126 Observation and Assessment-DS3 3
Hours: 3 Lecture/Discussion

This course focuses on the appropriate use of assessment and observation strategies to document developmental skills, behavior, growth, play and learning in promoting children's success. Recording strategies, rating systems, portfolios, and multiple assessment methods are explored. Child observations are conducted and analyzed. This core class qualifies for the COS Vocational Certificates, COS AS Degree, the California Child Development Permit and is transferable. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID ECE200)

CHLD 134 Understanding Child Abuse 3
Hours: 3 Lecture/Discussion

This study of child abuse and neglect includes a historical overview, causes, detection, prevention, treatment, and effects. Profiles of victims and their perpetrators will be examined. Content includes responsibilities of a Mandated Reporter and other legal issues. Emphasis is on effects of abuse and behavioral impact of Child Abuse and Neglect within families, classrooms, child care facilities, and the community. Societal implications include community resources for prevention, detection, and treatment as well as the building of healthy family dynamics. Understanding Child Abuse, CHLD 134, meets 3 of the 6 units needed for the COS Child Development-Assistant Certificate.

CHLD 136 Children's Literature-DS3 3
Hours: 3 Lecture/Discussion

This course will focus on literature appropriate for early childhood, infancy to age 8. Included are methods of evaluating books for young children, using literature as a basis for early curriculum and development of early interest in books and reading through appreciation of

literature. Appropriate for any adult working with young children. Qualifies for the Child Development-Assistant Certificate.

CHLD 140 Principles of ECE-DS3 3
Hours: 2 Lecture/Discussion
3 Lab

An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all young children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics, and professional identity. Requires 3 hours of lab per week at an approved child care setting. Lack of Tuberculin test clearance prior to participation in lab exercises will result in an administrative drop. This core class qualifies for employment in a Title 22 Licensed Child Development Facility, California Child Development Permits, COS Vocational Certificates, COS AS Degree and is transferable. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID ECE120)

Prerequisites: CHLD 039 or equivalent college course with "C" or better.

CHLD 141 Practices in ECE-DS3 3
Hours: 2 Lecture/Discussion
3 Lab

In this course the student will practice and demonstrate developmentally appropriate early childhood program planning and teaching competencies under the supervision of ECE/CD faculty and other qualified early education professionals. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child-centered, play-oriented approaches to teaching, learning, and assessment, and knowledge of curriculum content areas will be emphasized as student teachers design, implement, and evaluate experiences that promote positive development and learning for all young children.

This course also requires 45 hours of lab work per semester at an approved child care setting. Lack of Tuberculin Test Clearance prior to participation in lab exercises will result in an administrative drop. This course qualifies for the COS Vocational Certificate, Child Development Permit, AS Degree, and the CSU transfer degree. (C-ID ECE210)

Prerequisites: CHLD 140 and CHLD 039 and CHLD 042 and CHLD 149 or equivalent college courses with "C" or better.

CHLD 142 Adult Supervision/Mentor DS6 2
Hours: 2 Lecture/Discussion

Course includes methods and principles of supervising teachers in the early childhood classroom and also meets the requirement of adult supervision units on the California Child Development Permit Matrix. This course is required for the Child Development Permit, levels of Master Teacher and above. Students will complete the ECERS (Early Childhood Rating Scale), Mentor Application, as well as study team building and child care ethics.

Prerequisites: CHLD 141 and CHLD 143 or equivalent college courses with "C" or better.

CHLD 143 Administration of ECE-DS 6 3
Hours: 3 Lecture/Discussion

This course focuses on administering programs for children with emphasis on management of early childhood education programs, including program planning, organization, budgeting, personnel policies, record keeping, legal requirements and regulatory agencies. May be used to

fulfill Title 22 Child Care Center Director requirements. CHLD 143 and 144 can also be used to fulfill Title 5 requirements for a California Site Supervisor Permit. Advisory on Recommended Preparation: CHLD 141 or equivalent college course with "C" or better

Prerequisites: CHLD 140 or equivalent college course with "C" or better.

CHLD 144 Administration II-DS6 3
Hours: 3 Lecture/Discussion

Students will learn effective strategies for personnel management and leadership in early care and education settings. This will include legal and ethical responsibilities, supervision techniques, professional development and reflective practices for diverse and inclusive early care and education programs. May be used to fulfill Title 22 Child Care Center Director requirements. CHLD 143 and 144 fulfill requirements for a California Site Supervisory Permit.

Prerequisites: CHLD 140 or CHLD 141 or equivalent college course with "C" or better.

CHLD 146 Exceptional Child 3
Hours: 3 Lecture/Discussion

This course includes a study of the types of disabilities and the characteristics of children who have special needs. The course will also cover family issues and current trends involving children with special needs with an emphasis on interventions, inclusion, support services and pertinent legislation. Child Development 146 fulfills three of the 26 units for the COS Special Education Certificate.

CHLD 147 Infant/Toddler-Child Care-DS4 3
Hours: 3 Lecture/Discussion

This course covers the study of the development and care of infants and toddlers, implementing PITC (Program for Infants, Toddlers and Caregivers) and philosophy of Western Education. Additionally, it examines the relationships between primary care giving, bonding and attachments with the development and socialization process. This class also meets the requirement as an elective for specialization units required for Master Teacher Level on the Child Development Permit Matrix. This course also qualifies for the College of the Sequoias 26 unit, Special Education Certificate.

CHLD 148 Child Health/Safety-DS7 3
Hours: 3 Lecture/Discussion

Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health, safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration integration with families and health professionals. Focus on integrating the concepts into everyday planning and program development. This course qualifies for the COS Vocational Certificates, COS degree, the California Child Development Permit and is transferable. (C-ID ECE220)

CHLD 149 Creative Curric/Children-DS3 3
Hours: 2 Lecture/Discussion
3 Lab

Materials Fee: \$10.00

Equivalent Course: CHLD 149AB.

This course presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age 6. Students will examine a teacher's role in supporting development and engagement for all young children. This course provides strategies for developmentally-appropriate practice based on observation and assessments across the curriculum, including 1) academic content areas, 2) play, art, and creativity, and 3) development of social-emotional, communication, and cognitive skills. This course

qualifies for an AS Degree, COS Vocational Certificate, the California Child Development Permit and is transferable. (C-ID ECE130)

CHLD 152 School-Age Child Care-DS5 3
Hours: 3 Lecture/Discussion

This course examines the major physical, cognitive, and psychosocial developmental milestones of school-age children, including social and cultural dimensions. Emphasis on school-age child care programs and the developmental needs of children ages 6-12. Topics include: age appropriate environments, planning, curriculum, and guidance techniques.

CHLD 154 Intro Child with Special Needs 3
Hours: 3 Lecture/Discussion

This course gives an overview of treatments, strategies and techniques used for children with disabilities birth to age eight and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with disabilities and the identification and referral process. It is required for the COS Special Education Certificate and it also fulfills part of the 6-units of specialization needed for a California Child Development Permit.

CHLD 158 Cultural Diversity in ECE DS3 3
Hours: 3 Lecture/Discussion

This course will examine the development of social identities in diverse societies including theoretical and practical implications affecting young children, families, programs, teaching, education and schooling. Culturally relevant and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Course involves self-reflection of one's own understanding of educational principles in integrating anti-goals in order to better inform teaching practices and/or program development. This core class qualifies for employment in a Title 22 Licensed Child Development Facility, California Child Development Permits, COS vocational certificates, COS AS degree and is transferable. (C-ID ECE230)

CHLD 339 Introduction to Child Dev 3
Hours: 3 Lecture/Discussion

Equivalent Course: CHLD 239.

This is an introductory course with an overview of the early childhood education profession covering child development theory, age-appropriate curriculum and the developmental domains. It also includes licensing requirements and health, safety and nutrition standards for early childhood programs. Units will apply as electives toward the COS Vocational Certificate. Three hours of observation is required at the COS Child Development Center or licensed child care facility.

CHLD 410 Parents for Student Success 0
Hours: .5 Lecture/Discussion

This is a non-credit course for parents to learn how to take an active role in their child's education. Parents will learn how to navigate the school system for their child's success and understand the importance of their role in strengthening the partnership between home and school.

CINEMA ARTS

CINA 031 Film Appreciation-American 2
Hours: 1.5 Lecture/Discussion
1.5 Lab

An exploration of the motion picture production, objectives of various directors, actors and producers in their films, and technology and aesthetic changes in motion picture production. Students are taught to view the motion picture as an art form and to evaluate the objectives of motion pictures and their attainment. CINA 31 offered only in the Fall semester covers the period from beginning to present with emphasis on American films.

CINA 032 Film Apprec-International 2
Hours: 1.5 Lecture/Discussion
1.5 Lab

An exploration of the origin of motion picture production, objectives of various directors, actors and producers in their films, and technology and aesthetic changes in motion picture production. Students are taught to view the motion picture as an art form and to evaluate the objectives of motion pictures and their attainment. CINA 32 is offered only in the spring semester and covers contemporary film 1930 to present, with emphasis on international films.

COMMUNICATION

COMM 001 Fundamentals/Public Speaking 3
Hours: 3 Lecture/Discussion

Equivalent Course: COMM 001H, SPCH 001.

COMM 1 is an introductory course in Public Speaking. This course covers a variety of formal public address styles and formats. This course offers students an opportunity to learn and practice specific skills needed for effective public speaking. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with a grade of "C" or better, or eligibility for ENGL 1 as determined by COS Placement Procedures. (C-ID COMM110)

COMM 004 Interpersonal Communication 3
Hours: 3 Lecture/Discussion

Equivalent Course: SPCH 004.

A theoretical exploration of interpersonal communication dynamics influenced by the field of behavioral communications and psychology. Focus will be upon how individuals relate, perceive, communicate, and apply emotions within interpersonal settings. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with a grade of "C" or better or eligibility for ENGL 1 as determined by COS Placement procedures. Approved for Distanced Education format. Formerly SPCH 004. (C-ID COMM130)

COMM 005 Argumentation and Debate 3
Hours: 3 Lecture/Discussion

Equivalent Course: SPCH 005.

An introductory course in argumentation and debate, this course covers research into, and critical analysis of, major public issues. The course will provide practice in persuasive speaking and formal debate, with emphasis on research, organization, logical proof, and effective presentation. Students will also learn how to understand and avoid fallacies in their persuasive presentations. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID COMM120)

COMM 007 Persuasion 3
Hours: 3 Lecture/Discussion

Equivalent Course: SPCH 007.

This course examines the constant persuasive messages that permeate modern life. While grounded deeply in persuasive theory, this course also asks students to apply their learning to personal and professional endeavors. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID COMM190)

COMM 008 Group Communication 3
Hours: 3 Lecture/Discussion

Equivalent Course: SPCH 008.

Principles of communication in a variety of group contexts. Theory, application, and evaluation of group communication processes, including problem solving, conflict management, decision making, and leadership. The student will learn group dynamics, structures, the importance of maintaining structured agendas to complete task-oriented group discussions, and how to use substantive conflict to meet both the needs of the group and the individual group members. COMM 8 is an introductory course in Group Communication. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID COMM140)

COMM 009 Intercultural Communications 3
Hours: 3 Lecture/Discussion

Equivalent Course: SPCH 009.

This course will provide the student with an understanding of the different cultures in our country by providing an insight into the communicative behaviors each culture possesses. A variety of cultures will be studied, with specific emphasis placed on the different skills in verbal and nonverbal communication, communication climates and language interpretation of those cultures. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID COMM150)

COMM 112 Public Speaking for Business 4
Hours: 4 Lecture/Discussion

Equivalent Course: BUS 112, SPCH 112.

An introductory course in public speaking and presentation software. This course covers a variety of formal public speaking styles and formats. Students will also learn how to create a computerized slide show, as well as speaker outlines/notes and audience handouts to assist in their presentations. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better, or eligibility for ENGL 1 determined by COS Placement Procedures and BUS 270 or equivalent college course with "C" or better

COMM 151 Ind. Study-Communication 1 - 4
Hours: 3 TO 12 Lab

Equivalent Course: COMM 151AD.

The purpose of Independent Study is to provide an opportunity for students, under the direction of an instructor, to participate in advanced individualized studies to supplement and enhance existing courses. Independent Study requires a minimum of 52.5 hours of academic work per unit. In addition, students must file an Independent Study form through the Admissions and Records Office. Limitation on Enrollment: Completion of all beginning level courses offered at COS or equivalent college course in the selected area is required. In addition, each student must file an Independent Study form through the Admissions Office to obtain approval to enroll.

COMPUTER

COMP 005 Computer Concepts 4
Hours: 4 Lecture/Discussion
COMP 5 introduces students to computer hardware and software systems, the impact of computers on society, ethical issues, and applications of computer technology in many career fields. Students will learn to use a microcomputer and applications software packages, including word processing, electronic spreadsheets, database, and presentation software. It is recommended that students have a keyboarding speed of 20wpm before enrolling in this course. Advisory on Recommended Enrollment: Keyboarding skill of 20 wpm is recommended for this course. (C-ID ITIS120)

COMP 006 Programming Fundamentals 3
Hours: 2.5 Lecture/Discussion
1.5 Lab

This course introduces students to problem analysis and programming techniques for preparing computerized solutions using Visual Basic. Advisory on Recommended Preparation: COMP 005 or COMP 130 and BUS 270 or equivalent college courses with "C" or better or equivalent knowledge and/or skills as determined by departmental assessment (C-ID COMP112)

COMP 008 Programming Concepts (JAVA) 4
Hours: 3.5 Lecture/Discussion
1.5 Lab

Equivalent Course: COMP 108.

This is an advanced computer class designed to teach students how to plan and program typical business problems utilizing JAVA, a high-level, object-oriented language. Advisory on Recommended Preparation: COMP 006 and BUS 270 or equivalent college courses with "C" or better

COMP 009 Advanced Application Software 3
Hours: 2.5 Lecture/Discussion
1.5 Lab

Equivalent Course: COMP 109.

This course advances the Visual Basic .NET techniques learned in COMP 6 with the inclusion of file handling techniques, interconnectivity to an RDB (such as MS Access), and advanced software development using the management of visual objects on microcomputers. Emphasis of the course is on structure and style, using visual environments (windows and graphs), program planning, and logic structures. Advisory on Recommended Preparation: COMP 006 or equivalent college course with "C" or better or equivalent knowledge and/or skills as determined by departmental assessment

COMP 130 Intro to Personal Computers 4
Hours: 4 Lecture/Discussion

This course is designed to teach students how to use a computer. Topics include an introduction to computer concepts, Windows, word processing, spreadsheet, and database applications. Transfer students should check with their counselors to see whether COMP 130 or COMP 5 would be more appropriate for their major. Advisory on Recommended Preparation: BUS 270 or equivalent college course with "C" or better or equivalent knowledge and/or skills as determined by departmental assessment and Keyboarding speed of 20 wpm

COMP 133 Database Processing 3
Hours: 3 Lecture/Discussion

Database processing for microcomputers emphasizes relational database theory, design, and implementation. Practical applications will include using the database software to create tables, queries, forms, and reports. Advisory on Recommended Preparation: BUS 270 or equivalent

college course with "C" or better and COMP 130 or equivalent college course with "C" or better

COMP 135 Desktop Publishing for Bus 4
Hours: 4 Lecture/Discussion

This basic course in desktop publishing addresses the essentials of design, typography, graphics and text using Adobe Software to produce materials appropriate for businesses. Advisory on Recommended Preparation: BUS 270 or equivalent college course with "C" or better or equivalent knowledge and/or skills as determined by departmental assessment

COMP 138 Spreadsheet for Business 3
Hours: 3 Lecture/Discussion

This course emphasizes the design, creation, and use of spreadsheets for business applications. Students will learn beginning to advanced features of microcomputer spreadsheets, including proper use of formulas, customizing charts, and using pivot tables. Students entering this course need to be able to type 20 cwpm.

COMP 140 Computer Operating Systems 3
Hours: 3 Lecture/Discussion

Computer Operating Systems is designed to provide a theoretical and practical background to utilizing computer operating systems tools and accessories. Students are recommended to have the ability to type at least 20 CWAM before registering for this course.

COMP 220 Essential Computer Concepts 2
Hours: 2 Lecture/Discussion

This beginning course is designed to give students a basic familiarity with the personal computer. It is appropriate for anyone who is beginning to use a computer. Advisory on Recommended Preparation: BUS 270 or equivalent college course with "C" or better or equivalent knowledge and/or skills determined by departmental assessment

COMP 229 Web Page Design & Development 3
Hours: 3 Lecture/Discussion

This course emphasizes the design and creation of web pages. Students will learn how to use a web publishing software program, such as Macromedia Dreamweaver, to create professional-looking web sites. Advisory on Recommended Preparation: COMP 220 or equivalent college course with "C" or better and LIBR 102 or equivalent college course with "C" or better

COMP 230 Java Script/XML 3
Hours: 2.5 Lecture/Discussion
1.5 Lab

This course teaches students to use JavaScript and advanced HTML techniques to add functionality to web pages, including scrolling messages, animations and dynamic images, data input forms, pop-up forms, pop-up windows, and interactive forms. Advisory on Recommended Preparation: COMP 229 or equivalent college course with "C" or better

COMP 232 Server-Side Scripting and SQL 3
Hours: 2.5 Lecture/Discussion
1.5 Lab

This course will teach students how to write server-side scripts for the web in a language such as PHP that interact with a database using SQL. **Prerequisites: COMP 005 and COMP 230 or equivalent college courses with "C" or better.**

COMP 250 Software Fabrication 3
 Hours: 2.5 Lecture/Discussion
 1.5 Lab

This course will give an introduction to the study of software fabrication. Students will study topics including the software development life cycle, estimation, motivation, teamwork, feature-set control, task scheduling and productivity tools.

Prerequisites: COMP 006 or COMP 008 or equivalent college course with "C" or better.

COMPUTER SCIENCE

CSCI 001 Programming Concepts/Method 1 4
 Hours: 3 Lecture/Discussion
 3 Lab

Equivalent Course: CSCI 101.

Introduction to object-oriented programming and problem solving using C++. Algorithm development and object-oriented program design implemented through coding, debugging and documentation of this high level programming language. Advisory on Recommended Preparation: COMP 006 or equivalent college course with "C" or better (C-ID COMP122)

Prerequisites: MATH 070 or equivalent college course with "C" or better or eligibility for MATH 065 as determined by COS placement procedures.

CSCI 002 Programming Concepts/Method 2 4
 Hours: 3 Lecture/Discussion
 3 Lab

Equivalent Course: CSCI 102.

Data structures and object-oriented programming using C++. Application of software engineering techniques to the design and development of large programs; data abstraction, structures and associated algorithms. Approved for Distance Learning format. (C-ID COMP132)

Prerequisites: CSCI 001 or equivalent college course with "C" or better.

CONSTRUCTION TECHNOLOGY

CT 100 Const Draw/Design Analysis 1 4
 Hours: 3 Lecture/Discussion
 3 Lab

Materials Fee: \$5.00

Equivalent Course: CT 100AB.

Architectural drafting techniques and standards progressing from fundamentals to completion of light construction drawings, basic floor plans, elevations, details and respective building code analysis. The course utilizes computer automated drafting.

CT 101 Const Draw/Design Analysis 2 4
 Hours: 3 Lecture/Discussion
 3 Lab

Equivalent Course: CT 101AB.

Computer aided construction drafting including construction plan development, details for wood, concrete and structural steel. Advisory on Recommended Preparation: CT100 or equivalent college course with "C" or better or equivalent knowledge and/or skills as determined by departmental assessment

CT 105 Computer Asst. Const. Theory 4
 Hours: 3 Lecture/Discussion
 3 Lab

Equivalent Course: CT 105AB.

A study of basic construction practices and theory Including computer estimating, scheduling, and budgeting.

CT 109 Project Management/Codes 3
 Hours: 3 Lecture/Discussion

Practices in construction documents, computer-operated construction control, project management, building inspection/codes, utilities, labor and insurance requirements.

CT 130 INTRO TO CONST PRACTICES 3
 Hours: 3 Lecture/Discussion

Professional practice in management, ethics, regulations, safety regulations, utilities, insurance, labor, licensing, public relations and basic business skills as related to construction.

CT 132 BASIC BUILDING SYSTEM/CODES 3
 Hours: 3 Lecture/Discussion

Basic building systems theory, including foundations, walls, roofs, mechanical, electrical, corresponding building codes and inspections.

CT 138 Contractors License Law 3
 Hours: 3 Lecture/Discussion

A study of the fundamental concepts, principles, and applications of construction laws, lien laws, safety, and business laws concerning the construction industry. CT 138 is designed for the individual interested in taking the California State examination for the General Contractors (B) License, or the Specialty Contractors (C) License, or for the student interested in the laws governing the construction trade.

CT 204 Construction Theory/Practice 1 4
 Hours: 3 Lecture/Discussion
 3 Lab

Equivalent Course: CT 104AB.

Basic construction practices and theory for residential construction, including the study of residential plans, plan check requirements and construction materials.

CT 205 Plumbing 2
 Hours: 2 Lecture/Discussion
 1 Lab

Equivalent Course: CT 205AB.

Basic plumbing theory, materials and installation procedures, skill development for professional and non-professional plumbing students.

CT 214 On-Site Construction/Time Mgt 3
 Hours: 2 Lecture/Discussion
 4 Lab

Equivalent Course: CT 114AB.

Hands-on construction practices on a construction site to construct specific building projects to plans and specifications and to develop or enhance building skills with emphasis on time management.

CT 215 On-Site Construction/Quality 5
 Hours: 3 Lecture/Discussion
 6 Lab

Equivalent Course: CT 115AB.

Hands-on construction practices on a construction site to construct specific building projects to plans and specifications and develop or enhance building skills with emphasis on quality management.

CT 219 On-Site Construction/Safety 5
 Hours: 3 Lecture/Discussion
 6 Lab

Equivalent Course: CT 119AB.

Hands-on construction practices on a construction site to construct specific building projects to plans and specifications and develop or enhance building skills with emphasis on building site safety.

CT 220	Construction Practices 1	2.5	CT 270	Residential Wiring	3
Hours:	1 Lecture/Discussion 5 Lab		Hours:	3 Lecture/Discussion	
	Equivalent Course: CT 214.			Equivalent Course: CT 270AB.	
	Hands-on construction practices on a construction site to construct specific building projects to plans and specifications and to develop or enhance building skills.			Students will learn practical applications of residential electrical systems, including branch circuits, distribution, transformers, system components, power calculations for voltage, current, wattage, and NEC application.	
CT 221	Construction Practices 2	2.5	CT 271	Life Safety for Construction	3
Hours:	1 Lecture/Discussion 5 Lab		Hours:	3 Lecture/Discussion	
	Equivalent Course: CT 215.			Equivalent Course: CT 171AD.	
	Hands-on construction practices on a construction site to construct specific building projects to plans and specifications and develop or enhance building skills with emphasis on quality management.			Study of building codes and construction practices related to building occupants' safety.	
CT 222	Construction Practices 3	2.5	CT 273	Electrical Codes	3
Hours:	1 Lecture/Discussion 5 Lab		Hours:	3 Lecture/Discussion	
	Equivalent Course: CT 218.			Equivalent Course: CT 173AD.	
	Advanced hands-on construction practices on a construction site to construct specific building projects to plans and specifications and develop or enhance building skills with emphasis on controlling construction budgets.			Electrical code theory, plan review, math and field inspection for construction management and inspection professions.	
CT 223	Construction Practices 4	2.5	CT 274	Mechanical Inspection	3
Hours:	1 Lecture/Discussion 5 Lab		Hours:	3 Lecture/Discussion	
	Equivalent Course: CT 219.			Equivalent Course: CT 174AD.	
	Hands-on construction practices on a construction site to construct specific building projects to plans and specifications and develop or enhance building skills with emphasis on building site safety.			Principles of mechanical inspection, plan review, applicable math and field practices for construction management and inspection professions.	
CT 250	Basic Carpentry/Const Practice	4	CT 275	Plumbing Inspection	3
Hours:	3 Lecture/Discussion 3 Lab		Hours:	3 Lecture/Discussion	
	Equivalent Course: CT 150.			Equivalent Course: CT 175AD.	
	Introduction to construction tools, materials, measuring, millwork, and basic construction practices.			Concepts of plumbing systems, code applications, fixture allocation and field inspection.	
CT 260	Interior Millwork	4	CT 276	Architecture Inspection	3
Hours:	3 Lecture/Discussion 3 Lab		Hours:	3 Lecture/Discussion	
	Equivalent Course: CT 160.			Equivalent Course: CT 176AD.	
	Mill cabinet functional and spatial concepts, design and construction, interior finish components and wood-shop practices.			Principles of architectural inspection, applicable codes, related math and engineering plan symbols for construction management and inspection professions.	
CT 261	Cabinetmaking	4	CT 277	Structural Inspection	3
Hours:	3 Lecture/Discussion 3 Lab		Hours:	3 Lecture/Discussion	
	Concepts of design, layout, safety and basic cabinet construction for individual projects.			Equivalent Course: CT 170AD.	
				Structural inspection principles of concrete, wood and metal for construction management and inspection professions.	
CT 262	Cabinet and Furniture Const.	4	CONSUMER/FAMILY STUDIES		
Hours:	3 Lecture/Discussion 3 Lab		CFS 080	Lifespan Development	3
	Equivalent Course: CT 162AB.		Hours:	3 Lecture/Discussion	
	Concepts of cabinet design, furniture design, layout, construction, safety and millwork for building individual projects.			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. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures. (C-ID PSY180)	

COSMETOLOGY

COSM 261 Basic Cosmetology 6 - 15

Hours: 5 TO 5 Lecture/Discussion
3 TO 30 Lab

COSM 261 includes a study of basic scientific theories and techniques as they apply to cosmetology. The course covers disorders, diseases, analysis, and treatment of the skin, hair, scalp, and nails; bacteriology, sterilization, and sanitation; principles of hair styling, chemicals and applications, fundamentals of massage, facials, and manicuring; ethics in cosmetology and salon management principles. Limitation on Enrollment: Students must meet with an Estes Cosmetology Representative and be granted admission to the Estes Cosmetology Program.

COSM 262 Intermediate Cosmetology 6 - 15

Hours: 5 Lecture/Discussion
3 TO 30 Lab

Cosmetology 262 includes a study of basic scientific theories and techniques as they apply to cosmetology. The course covers disorders, diseases, analysis, and treatment of the skin, hair, scalp, and nails; bacteriology, sterilizations, and sanitation; principles of hair styling, chemicals and applications, fundamentals of massage, facials, and manicuring; ethics in cosmetology and salon management principles. Prerequisite may be waived with 500 hours of cosmetology training. Limitation on Enrollment: Admission into the Cosmetology Program
Prerequisites: COSM 261 or equivalent college course with "C" or better.

COSM 263 Cosmetology Theory & Practice 6 - 15

Hours: 5 Lecture/Discussion
3 TO 30 Lab

Equivalent Course: COSM 263AB.

This course emphasizes the theory and practice of cosmetology. It explores hair sculpting and coloring, cosmetology anatomy, cosmetology chemistry, the psychology of selling, salon management principles, and resume writing.

Prerequisites: COSM 261 or COSM 262 or equivalent college course with "C" or better.

COSM 264 Cosmetology License Exam Prep 6 - 15

Hours: 5 Lecture/Discussion
3 TO 30 Lab

This course fulfills State required cosmetology competency and practice skills in order for students to be eligible for licensure by the Department of Consumer Affairs Bureau of Barbering and Cosmetology. Students shall complete 1600 total hours of practical training and technical instruction by the end of the certificate program per Section 7316 of the California Bureau of Barbering and Cosmetology Business and Professions Code.

Prerequisites: COSM 261 or COSM 262 or equivalent college course with "C" or better.

COUNSELING

COUN 025 Creating College Success 2

Hours: 2 Lecture/Discussion

This course will focus on strategies and tools for college success, in addition to exploring culture and its impact on academic success. Students in this course will also be paired with a mentor from the professional community. Field trips to universities are a required part of this course. Limitation on Enrollment: Participation in the Puente Project

COUN 100 Career Planning 3

Hours: 3 Lecture/Discussion

An introduction to career/life planning including an exploration of interests, skills, values, personality traits, past experiences and life stages.

Students will develop a career/life plan using gathered self-information, decision-making strategies and an awareness of psychological, sociological and physiological factors related to career/life satisfaction. The course is approved for distance education format.

COUN 115 Transfer/Career Readiness 2

Hours: 2 Lecture/Discussion

This course is designed to be the cornerstone of a successful transition into the next stage of a student's academic goal. Students will gain an understanding of the psychological, sociological and academic demands of college and employment as well as learn how to use tools available to search for employment and/or to apply for transfer to a university. Upon course completion, students will have created a transfer planner account on CSUMENTOR and/or UCTRANSFER and/or another university website. Students will also complete an employment portfolio which may include a cover letter, resume, personal statement, etc.

CULINARY

CULN 201 Foods 3

Hours: 2 Lecture/Discussion
3 Lab

Materials Fee: \$35.00

Equivalent Course: NUTR 101.

An elementary study on the physical properties and reactions of foods and culinary cooking techniques. Areas of study include food properties, nutritive values, nutrient preservation, product evaluation, food safety and sanitation.

CULN 205 Professional Cooking 3

Hours: 2 Lecture/Discussion
3 Lab

Materials Fee: \$40.00

Equivalent Course: NUTR 105.

An introduction to the fundamentals of culinary arts, this hands-on course covers sauces and stocks, soups, pasta-making, breakfast and brunch items, yeast and quick breads and seasonal cuisine. Also includes knife techniques, culinary terms, menu-planning, tools and equipment. These topics are explored as they fit into a professional culinary operation. The course is taught by a professional with experience in the commercial food service industry.

CULN 206 Professional Cooking 2 3

Hours: 2 Lecture/Discussion
3 Lab

Materials Fee: \$35.00

Equivalent Course: NUTR 106.

Fundamentals of culinary arts with an emphasis on baking techniques; yeast products, pastries, cookies, pies, and cakes. Other culinary techniques covered are stocks, soups, sauces, fish and shell fish. This hands-on course covers culinary basics such as sanitation and safety, knife skills, mise en place, tools and equipment, and professionalism and is taught by a professional with experience in the commercial food service industry.

DAIRY SCIENCE

DSCI 101 Introduction to Dairy Science 3

Hours: 3 Lecture/Discussion
1 Lab

Survey of the dairy industry; supply of milk and milk products and their uses; emphasis on the history, development and projections of the dairy industry in the US. Covers general information on the economics of dairying; dairy facts and trends; dairy animal selection, culling, fitting, showing, and judging; pedigree evaluation; basic dairy

feeds and feeding; fundamentals of bovine reproduction; basic dairy management skills; requirements for and opportunities in dairy industry employment. Laboratory Required. (C-ID: AG-AS 112L)

DSCI 103 Commercial Dairy Herd Mgmt 3
Hours: 3 Lecture/Discussion
1 Lab

This course is designed to give students an in-depth understanding of commercial dairy herd operations. Cost of production, herd health, milk pricing, and use of computer programs is also part of the class.

DSCI 104 Breed/Select of Dairy Cattle 3
Hours: 3 Lecture/Discussion
1 Lab

Instruction in the theory and interpretation of elements used in the selection and evaluation of dairy breeds of cattle will be the main emphasis of this course. Concepts and abstracts used for quality grading of animals will be emphasized. Insemination, embryo transfer, gender selection, bull proofs and cow mating practices shall be covered as they relate to quality criteria.

DSCI 108 Dairy Nutrition 3
Hours: 3 Lecture/Discussion
1 Lab

This course is designed to give students an in depth study of dairy cattle nutrition. Nutrient requirements of dairy cattle, commodity feeding, ration formulation and feeding systems will be discussed. Computer application of ration formulation will be used, along with spreadsheets to project feed inventories and usage.

DANC 041 Musical Theatre Perf-Dance 2
Hours: 7 Activity

Equivalent Course: DANC 041AD.

Experience dance, music, drama and theatre through active participation in a major musical production. Includes training and experience in all facets of the theatre.

DANC 050 Ballet 1
Hours: .5 Lecture/Discussion
1.5 Activity

Equivalent Course: DANC 008AD.

This course provides an introduction to the study of ballet, including its history, tradition, styles and forms. Beginning vocabulary, positions and terminology are emphasized.

DANC 051 Ballet 2 1
Hours: .5 Lecture/Discussion
1.5 Activity

Equivalent Course: DANC 151.

This is the second level of training in the study of ballet. Building on the basic terms and steps, new concepts, balancing on one leg, speed and repetition are added.

DANC 054 Modern Dance 1 1
Hours: .5 Lecture/Discussion
1.5 Activity

Equivalent Course: DANC 010AD.

This course is an introduction to the fundamentals of Modern Dance technique. Emphasis on the importance of breath, body alignment, rhythmic movement, and the exploration of movement through time, space and energy.

DANC 055 Modern Dance 2 1
Hours: .5 Lecture/Discussion
1.5 Activity

Equivalent Course: DANC 155.

This course builds onto the concepts of modern dance through control of breath, body alignment, rhythmic movement, and the exploration of movement through time, space and energy. Students can expect to increase the range of movement and flexibility in legs.

DANC 056 Contemporary Dance 1
Hours: .5 Lecture/Discussion
1.5 Activity

Equivalent Course: DANC 156.

Contemporary Dance is a free flowing blend of emotional expression. Building on the Ballet/Modern skills, the course explores extensive floor and acrobatic elements. This course moves at an accelerated rate. It requires fast footwork, flexibility, strong arms and hands for floor work, as well as strong leg and core skills that enable the student to jump and fall quickly to the floor.

DANC 058 Jazz Dance 1 1
Hours: .5 Lecture/Discussion
1.5 Activity

Equivalent Course: DANC 012AD.

An introduction to the basic movement skills employed in jazz dance techniques. Compositional forms and rhythms are practiced, leading to an understanding and appreciation of jazz as an artistic dance form.

DANCE

Dance Families of Courses	
Ballet Family	DANC 050
	DANC 051
Modern Family	DANC 054
	DANC 055
	DANC 156
Jazz Family	DANC 058
	DANC 059
	DANC 160
	DANC 160
Tap Family	DANC 062
	DANC 063
Current Trends Family	DANC 070
	DANC 071
Choreography Family	DANC 080
	DANC 081
	DANC 085
	DANC 182
Musical Family	DANC 041

DANC 059	Jazz Dance 2	1	DANC 081	Studies in Choreography	1
Hours:	.5 Lecture/Discussion 1.5 Activity		Hours:	.5 Lecture/Discussion 1.5 Activity	
	Equivalent Course: DANC 159.			Equivalent Course: DANC 181.	
	This is the second level of jazz dance. The course covers basic skills, with an emphasis on conditioning and flexibility. Students will learn a 4 counts of 8 combination. Additional skills in turning and jumping, as well as accelerated terms, will be part of the instruction for this course.			Choreography with emphasis on combining movements and developing ideas in relation to movement phrases and developing complex ideas in relation to motivation, styles and artistic form. Discussion and critique skills will be developed to articulate the art of dance in group choreography.	
DANC 061	Musical Dance Styles	1	DANC 082	Improvisational Dance	1
Hours:	.5 Lecture/Discussion 1.5 Activity		Hours:	.5 Lecture/Discussion 1.5 Activity	
	Equivalent Course: DANC 161.			Equivalent Course: DANC 182.	
	This course is for the intermediate to advanced level dancer with strong jazz/ballet technique skills. Students will perform high levels of jumps and turns, falls and recovery with emphasis on experienced levels of line, phrasing, endurance and performance as they study the history of music theater and the many styles of dance that have graced the stage.			Finding ways to express qualities of movement on the spot, the experienced dancer emphasizes the accelerated use and implementation of breath, body alignment, rhythm, movement, and the exploration of movement through time, space and energy.	
DANC 062	Tap Dancing 1	1	DANC 085	Dance Production 1	1
Hours:	.5 Lecture/Discussion 1.5 Activity		Hours:	.5 Lecture/Discussion 2 Activity	
	Equivalent Course: DANC 016AD, PE 016AB.			Equivalent Course: DANC 185.	
	This beginning level of tap introduces the dance student to single, and double sounds made with the feet. Creating Rhythm sounds with foot work, that feature specific body coordination and weight change skills are taught.			This class provides instruction in creative dance expression, emphasizing advanced techniques and choreography. Students will have opportunities for public performance and competition.	
DANC 063	Tap Dancing 2	1	DANC 160	Commercial Dance Styles	1
Hours:	.5 Lecture/Discussion 1.5 Activity		Hours:	.5 Lecture/Discussion 1.5 Activity	
	Equivalent Course: DANC 163.				
	A second level course for students who have mastered basic tap dance skills, this course focuses on developing the speed at which students master tap routines, adding triple or quadruple sounds as well. Students are advised to take Tap 1 or have past tap experience to be successful in this class.			This is a fast-paced dance course emphasizing kicks, jumps and quick percussive movement. Students should have strong Jazz/Ballet dance skills, including the ability to turn and jump, as well as quick memory and performance skills. The class will focus on styles used in the commercial dance industry around the world.	
DANC 070	Hip Hop	1	DRAFTING		
Hours:	.5 Lecture/Discussion 1.5 Activity		DRFT 016	CAD Applications	4
	Equivalent Course: DANC 170.		Hours:	3 Lecture/Discussion 3 Lab	
	Introduction to popular trends in "old school" street dance. Students will study a variety of cultural street dancing styles that started in vaudeville and burst onto the street scene in 1960 with the scratch playing of DJ Herc.			Materials Fee: \$20.00	
DANC 071	Dance Crew	1		Equivalent Course: DRFT 016AD, DRFT 116AD.	
Hours:	.5 Lecture/Discussion 1.5 Activity			This is an advanced computer assisted drafting course that explores parametric solid modeling. Techniques include modeling tools, assembly modeling, and working with drawing views. Advisory on Recommended Preparation: DRFT 114 and 115 or equivalent college courses with "C" or better	
	Equivalent Course: DANC 171.		DRFT 112	Mechanical Drafting 1	3
	This course explores current trends in team street dancing, including the many facets of roll offs, formation changes and tempo manipulation. During the course, students will form their own dance crews to learn the challenges and understand the benefits of working in concert with others.		Hours:	2 Lecture/Discussion 3 Lab	
DANC 080	Choreography	1		Materials Fee: \$5.00	
Hours:	.5 Lecture/Discussion 1.5 Activity			Equivalent Course: DRFT 200.	
	Equivalent Course: DANC 006AD.			This is an introductory course in the fundamentals of mechanical drawing and modern drafting practice. It is a "tactile" (by hand) drafting course. This course is a basis for all drafting-related majors and is recommended for students who have had no high school drafting, but plan to enter any one of various design professions.	
	This course emphasizes combining movements and developing ideas in relation to dynamics, design and motivation. Students will discuss forms and learn how to articulate the art of dance.				

DRFT 113 Mechanical Drafting 2 3
 Hours: 2 Lecture/Discussion
 3 Lab
Materials Fee: \$5.00
Equivalent Course: DRFT 100.
 This is an intermediate course in the fundamentals of technical drafting and practical applications. Emphasis will be placed on lettering, orthographic projection, auxiliary views, dimensioning, and the inter-relationship of each manufacturing design. Formerly DRFT 100. Advisory on Recommended Preparation: DRFT 112 (Formerly DRFT 200) or equivalent college course with a grade of "C" or better or equivalent skills as determined by departmental assessment.

DRFT 114 Introduction to CAD 4
 Hours: 3 Lecture/Discussion
 3 Lab
Materials Fee: \$20.00
 This is an introductory course that explores the basic concepts and applications of computer assisted drafting. Students will use the computer to solve a series of drafting problems related to various design professions.

DRFT 115 Advanced CAD 4
 Hours: 3 Lecture/Discussion
 3 Lab
Materials Fee: \$20.00
 This is an advanced computer assisted drafting course that explores parametric solid modeling. Techniques include sketching, editing, modifying, adding relations and dimensions, base feature options, creating geometries, modeling tools, and editing features. Advisory on Recommended Preparation: DRFT 114 or equivalent college course with "C" or better

DRFT 151 Independent Study-DRAFTING 1 - 4
 Hours: 3 TO 12 Lab
Equivalent Course: DRFT 151AD.
 The purpose of independent study is to provide an opportunity for students, under the direction of an instructor, to participate in advanced individualized studies to supplement and enhance existing courses. Independent Study requires a minimum of 54 hours of academic work per unit. Advisory on Recommended Preparation: DRFT 114 or equivalent college course with "C" or better
 Limitation on Enrollment: Completion of all beginning level courses in the selected subject area and Drafting Technology Department approval. Students must file an Independent Study form through the Admissions and Records Office prior to enrollment.

DRFT 251 Independent Study-DRFT 1 - 4
 Hours: 3 TO 12 Lab
Equivalent Course: DRFT 251AD.
 The purpose of independent study is to provide an opportunity for students, under the direction of an instructor, to participate in advanced individualized studies to supplement and enhance existing courses. Independent Study requires a minimum of 54 hours of academic work per unit. Advisory on Recommended Preparation: DRFT 114 or equivalent college course with "C" or better
 Limitation on Enrollment: Drafting Technology Department approval required to enroll. Students must file an Independent Study form through the Admissions and Records Office prior to enrollment.

DRFT 290 Supervised Practice 1 - 3
 Hours: 3 TO 9 Lab
Equivalent Course: DRFT 190AD.
 Under the supervision of an instructor, selected students assist and direct students in less advanced classes. This course provides experi-

ence for students interested in teaching, counseling and other employment or volunteer situations where the student is expected to take a leadership role. Advisory on Recommended Preparation: DRFT 114 or equivalent college course with "C" or better

DRFT 400 Drafting Tech Sup Lrng Assist 0
 Hours: 27 TO 108 Lab
 Drafting Technology Supplemental Learning Assistance is intended to strengthen students' drafting technology skills and reinforce their mastery of concepts. This open entry/open exit class is linked with the following parent courses: DRFT 112, DRFT 113, DRFT 114, DRFT 115, and DRFT 116.

DRAMA	
Theatre Families of Courses	
Acting Family	DRAM 002
	DRAM 003
	DRAM 004
	DRAM 005
Stagecraft Family	DRAM 013
	DRAM 014
Stage Lighting Family	DRAM 015
	DRAM 016
Makeup/Costuming Family	DRAM 017
	DRAM 012
Rehearsal and Performance Family	DRAM 019
	DRAM 021
Musical Theatre Family	DRAM 020
Student Production Family	DRAM 022
Stage Movement Family	DRAM 030

DRAM 001 Intro to the Theatre 3
 Hours: 3 Lecture/Discussion
 This course is intended as an introduction to the critical analysis of theatre from an audience perspective. Elements of play production - from the dramatic structure, style, and historical perspective of the script to the final presentation before an audience - will be explored. (C-ID: THTR111 and THTR112)

DRAM 002 Fundamentals of Acting 1 4
 Hours: 3.5 Lecture/Discussion
 1.5 Lab
 This course prepares a student to apply basic acting theory to performance and develops the skills of interpretation of drama through acting. The student will be introduced to the process of analyzing and developing a character from Modern and Contemporary Theatre through the rehearsal and presentation of scenes and monologues with attention to: memorization, stage movement, vocal production, and interpretation of text. (C-ID THTR 151)

DRAM 003 Fundamentals of Acting 2 3
 Hours: 2.5 Lecture/Discussion
 1.5 Lab
 This course continues the exploration of theories and techniques used in preparation for the interpretation of drama through acting. Emphasis is placed on deepening the understanding of the acting process through: character analysis, monologues, scene work, the appraisal and analysis

of stage techniques, acting theories, and practices in performance from experimental dramas and the theater of the absurd. This course is designed to exercise the separate parts of the composite art of acting which includes thought, emotion, and specific movement and vocal techniques. (C-ID THTR152)

Prerequisites: DRAM 002 or equivalent college course with “C” or better.

DRAM 004 Intermediate Acting: Classical 3
Hours: 2.5 Lecture/Discussion
1.5 Lab

This course is designed as an advanced level of study of acting proficiency and technique begun in DRAM 2 and 3. Class lecture, discussion, and scene work focus on text and character analysis, clarity of characterization, vocal and physical expressiveness and emotional release. Acting scene material is taken from the plays of the classical Greek Theatre, William Shakespeare and the Restoration comedies of the 18th century. Advisory on Recommended Preparation: DRAM 002 or DRAM 003 or equivalent college course with “C” or better

DRAM 005 Intermediate Acting 2: Styles 3
Hours: 2.5 Lecture/Discussion
1.5 Lab

Continuation of acting sequence in which play texts are studied and presented with concentration on in-depth analysis of subject material, intensity of action, freedom of emotional release, and clarity of expression. Acting scenes are chosen from European and American plays from the Eighteenth and Nineteenth Centuries through the social dramas of the 1930s. Students may enroll in this course without having taken DRAM 4. Advisory on Recommended Preparation: DRAM 002 or DRAM 003 or DRAM 004 or equivalent college course with “C” or better

DRAM 006 Shakespeare 3
Hours: 3 Lecture/Discussion

DRAM 006 is an introductory course that stresses student involvement with the literary and dramatic aspects of Shakespeare’s works through the use of lecture, reading from the text, text analysis, acting scenes, and video. Each student will participate in the reading and interpretation of selected plays. It will also treat the playwright’s life, times, sources, and influences on his work.

DRAM 012 Costuming 3
Hours: .5 Lecture/Discussion
3.5 Lab
4 Activity

Equivalent Course: DRAM 012AB, FASH 012AB.

This course is designed as an introduction to the function and aesthetic effect of costumes. Design, research, organization, pattern and construction techniques, sewing equipment use and function of costume personnel in production work are explored. Additional hours required working on crews for college productions. These additional hours amount to 4 per week/70 hours total. (C-ID THTR174)

DRAM 013 Beginning Stagecraft 3
Hours: .5 Lecture/Discussion
3.5 Lab
4 Activity

Equivalent Course: DRAM 013AB.

This course is designed to introduce students to stagecraft, all technical phases of scene production including construction, painting, rigging, placement, and manipulation of stage scenery and properties. Four additional hours required for crew work on college productions totaling seventy hours for the semester. (C-ID THTR171)

DRAM 014 Intermediate Stagecraft 3
Hours: .5 Lecture/Discussion
3.5 Lab
4 Activity

Equivalent Course: DRAM 014AB.

This course is designed as an intermediate class for the student who has completed DRAM 13. Student will explore management responsibilities through leadership roles in technical direction, construction, scenic artistry, and backstage organization. Four additional hours required for crew work on college productions, totaling seventy hours for the semester. Advisory on Recommended Preparation: DRAM 013 or equivalent college course with “C” or better

DRAM 015 Beginning Stage Lighting 3
Hours: 2.5 Lecture/Discussion
1.5 Lab

Equivalent Course: DRAM 015AB.

This course introduces the student to the basic concepts of theatre lighting. Study includes the operation of stage lighting. (C-ID THTR173)

DRAM 016 Intermediate Stage Lighting 3
Hours: 2.5 Lecture/Discussion
1.5 Lab

Equivalent Course: DRAM 016AB.

The student will continue the study of stage lighting by being assigned the added responsibilities of lighting crew and production staff leadership. Individual design, rigging, and organization problems, as well as lighting instrument and control system maintenance and operation techniques, will be assigned. Advisory on Recommended Preparation: DRAM 015 or equivalent college course with “C” or better

DRAM 017 Makeup 3
Hours: .5 Lecture/Discussion
3.5 Lab
4 Activity

Equivalent Course: DRAM 017AB, FASH 017AB.

This course is designed to introduce the student to the basic techniques and materials of theatrical makeup. Topics include facial shape, hair arrangement, skin care, and makeup for various races and skin types. Additional hours are required to work on crews for college Drama Arts productions. The student will complete 4 hours a week or a total of 70 hours for the semester. (C-ID THTR175)

DRAM 019 Rehearsal and Performance 1 2
Hours: 7 Activity

Equivalent Course: DRAM 019AD.

Participating as actors in a fully supported theatre production of the Classical Period, students focus on individual and ensemble performance techniques that are essential for a classical play production. Participation in rehearsals and public performance is required. Limitation on Enrollment: Audition by Department (C-ID THTR191)

DRAM 020 Music Theatre Rehears & Perform 2
Hours: 7 Activity

Equivalent Course: DRAM 020AD.

Experience in drama and theatre through active participation in major musical productions. Includes training and experience in all facets of the theatre. Limitation on Enrollment: Audition by Department (C-ID THTR191)

DRAM 021 Rehearsal and Performance 2 2
Hours: 7 Activity
Equivalent Course: DRAM 021AD.
Experience in modern and contemporary theatre through active participation in a full-length play for public performance. Limitation on Enrollment: Audition by Department (C-ID THTR191)

DRAM 022 One Act Play Production 2
Hours: 1 Lecture/Discussion
3 Lab
1 Activity
Equivalent Course: DRAM 022AD.

This course is designed to introduce the student to the background, function and techniques of stage direction and play production, leading to the staging of a one act play before an audience.

DRAM 030 Stage Movement/Stage Combat 2
Hours: 1 Lecture/Discussion
3 Lab

Equivalent Course: DRAM 030AB.

This course is designed as an introduction to the function and application of stage movement and combat as it applies to the actor and theatrical productions.

DRAM 040 Music Theater 3
Hours: 3 Lecture/Discussion
Equivalent Course: DRAM 040AD.

This course is designed as an introduction to the fundamental skills and knowledge that musical theater students must apply to performance situations. The course also examines musical theater as an art form and studies its place in history as well as in contemporary culture.

EARTH SCIENCE

ESCI 001 Introduction to Earth Science 4
Hours: 3 Lecture/Discussion
3 Lab

Equivalent Course: ESCI 100.

This course provides students with the scientific background to teach earth science at kindergarten through 8th grade levels. It emphasizes the application of the scientific method to the study of Earth systems. Topics include: geology (minerals, rocks, earthquakes, volcanoes, rivers, glaciers, the fossil record), oceanography (ocean composition, currents, tides, coastlines), meteorology (atmospheric composition, weather, storms), and astronomy (phases of the moon, eclipses, the solar system). Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better AND MATH 200 or equivalent college course with "C" or better

ECONOMICS

ECON 025 Introduction to Economics 3
Hours: 3 Lecture/Discussion

Equivalent Course: ECON 125.

A broad survey of the development of economic ideas and theories in the context of economic history (including major economic thinkers). Both microeconomic and macroeconomic topics are covered including supply and demand, market structures, inflation, unemployment, fiscal policy, monetary policy, and international trade. Advisory on Recommended Preparation: MATH 360 or equivalent college course with "C" or better

Prerequisites: ENGL 251 or equivalent college course with "C" or better or eligibility as determined by COS placement procedures.

ECON 040 Principles of Microeconomics 3
Hours: 3 Lecture/Discussion

Equivalent Course: ECON 002, ECON 40H.

This is an introductory course focusing on choices of individual economic decision-makers. Topics include: scarcity, comparative advantage, market equilibrium, elasticity, cost theory, market structures, factor markets and market failure. (C-ID ECON201)

Prerequisites: (MATH 230 and (ENGL 251 or equivalent college courses with "C" or better or eligibility for MATH 021 as determined by COS placement procedures.

ECON 050 Principles of Macroeconomics 3
Hours: 3 Lecture/Discussion

Equivalent Course: ECON 001.

An introductory course focusing on aggregate economic analysis. Topics include: market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics, and economic growth. (C-ID ECON202)

Prerequisites: (ECON 040 or ECON 002) and MATH 230 and ENGL 251 or equivalent college courses with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures.

EDUCATION

EDUC 050 Introduction to Teaching 3
Hours: 2 Lecture/Discussion
3 Lab

Equivalent Course: EDUC 150.

This course introduces a student to the concepts and issues related to teaching diverse learners in today's contemporary schools, kindergarten through grade 12 (K-12). 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 field work in public school elementary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. Advisory on Recommended Preparation: ENGL 251 or equivalent course with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures. (C-ID EDUC200)

EDUC 120 Tech Skills for Educators 3
Hours: 3 Lecture/Discussion

Information and hands-on explorations allow students to develop basic skills for using computer technology for productivity and instruction in educational settings. Major topics include basic computer terminology and functions, common computer applications (word processing, databases, spreadsheets, and presentation software), educational technology trends, and issues relating to the uses of computers in educational settings.

ELECTRICIAN TRAINING

ET 200 Intro to Electrician Training 4
Hours: 3.5 Lecture/Discussion
1.5 Lab

Materials Fee: \$40.00

Equivalent Course: ET 200AB.

This is the first course in a series of state-approved Electrician Training classes. Topics include basic safety, math, tools, blueprints, and rigging. NCCER Modules 1-16.

ET 201	Electrician Training 1	4
Hours:	3.5 Lecture/Discussion 1.5 Lab	
Materials Fee:	\$40.00	
Equivalent Course: ET 201AB.		
This is an electrical course in a series of state-approved Electrician Training classes. Topics include electrical theory, introduction to NEC codes, electrical blue prints, hand bending, fasteners, anchors, test equipment, raceways, boxes, fittings, and residential wiring. NCCER Modules 17-25.		
Prerequisites: ET 200 or ET 200AB or equivalent college course with "C" or better.		
ET 202	Electrician Training 2	4
Hours:	3.5 Lecture/Discussion 1.5 Lab	
Materials Fee:	\$40.00	
Equivalent Course: ET 202AB.		
This is an electrical course in a series of state-approved Electrician Training classes. Topics include commercial and industrial wiring, AC motor theory and application, grounding, conduit bending, boxes and fittings, and conductor installations. It includes NCCER Modules 26-32.		
Prerequisites: ET 201 or equivalent college course with "C" or better.		
ET 203	Electrician Training 3	4
Hours:	3.5 Lecture/Discussion 1.5 Lab	
Materials Fee:	\$40.00	
Equivalent Course: ET 203AB.		
This is an electrical course in a series of state-approved Electrician Training classes. Topics include voice and data systems, fiber optics, cable tray, conductor terminations and splices, electric services, breakers, contactors and relays, and lighting circuits. This course includes NCCER Modules 27-33.		
Prerequisites: ET 202 or equivalent college course with "C" or better.		
ET 204	Electrician Training 4	4
Hours:	3.5 Lecture/Discussion 1.5 Lab	
Materials Fee:	\$40.00	
Equivalent Course: ET 204AB.		
This is an electrical course in a series of state-approved Electrician Training classes. Topics include calculations, overcurrent protection, raceway, box, and fitting fill, wiring devices, and distribution equipment. NCCER Modules 34-40 are covered in this course.		
Prerequisites: ET 203 or equivalent college course with "C" or better.		
ET 205	Electrician Training 5	4
Hours:	3.5 Lecture/Discussion 1.5 Lab	
Materials Fee:	\$40.00	
Equivalent Course: ET 205AB.		
This is an electrical course in a series of state-approved Electrician Training classes. Topics include distribution system transformers, lighting, motor calculations, maintenance, and hazardous locations. This course covers NCCER Modules 41-47.		
Prerequisites: ET 204 or ET 204AB or equivalent college course with "C" or better.		

ET 206	Electrician Training 6	4
Hours:	3.5 Lecture/Discussion 1.5 Lab	

Materials Fee: \$40.00
Equivalent Course: ET 206AB.

This is an electrical course in a series of state-approved Electrician Training classes. Topics include load calculations, lighting, standby/emergency systems, electronic theory, fire alarm systems, and specialty transformers. This course covers NCCER Modules 48-53.

Prerequisites: ET 205 or equivalent college course with "C" or better.

ET 207	Electrician Training 7	4
Hours:	3.5 Lecture/Discussion 1.5 Lab	

Materials Fee: \$40.00
Equivalent Course: ET 207AB.

This is an electrical course in a series of state-approved Electrician Training classes. Topics include motor controls, HVAC controls, motor maintenance, high-voltage terminations/splices, foremanship, and NEC code review. This course covers NCCER Modules 54-60.

Prerequisites: ET 206 or equivalent college course with "C" or better.

ET 220	Electrical Code Update	2
Hours:	2 Lecture/Discussion	

Equivalent Course: ET 220AC.

This course provides an overview of the National Electrical Code and an update for all sections of NEC code book.

ELECTRONICS

ELEC 160	Basic Electronics	3
Hours:	3 Lecture/Discussion 1 Lab	

Materials Fee: \$64.00
Equivalent Course: ELEC 160AC.

Basic knowledge of electricity and electronics is essential for many non-electronics majors spanning medical, computer, agricultural and telecommunications, plus others. This course covers all the basic concepts in electricity and electronics, including electricity and magnetism, transformers, alternating and direct currents as well as magnetic fields, without the detail and math rigor usually found in a comprehensive electronics curriculum.

EMERGENCY MEDICAL TECHNICIAN

EMT 251	Emergency Medical Technician B	5
Hours:	3 Lecture/Discussion 6 Lab	

Equivalent Course: EMT 351.

The student who completes this course will develop skills in recognition of symptoms of illness and/or injury and proper procedures for emergency care. Those who complete the EMT B courses are eligible to sit for the National Registry of Emergency Medical Technicians and employment by government and private emergency health care services in the area (state certification and national testing fees apply). Successful completion of the course also allows eligibility for Emergency Medical Technician Paramedic training, which provides opportunity for career advancement, higher pay, and greater responsibility in providing emergency health care. Some EMTs enter nursing and other advanced health care fields. Limitation on Enrollment: A statement verifying CPR training equivalent to the current American Heart Association's Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care at the Healthcare Provider level is a prerequisite for admission to an EMT basic course. (California Code of Regulations Title 22)

ENGINEERING

ENGR 001	Engineering Graphics	4
Hours:	3 Lecture/Discussion 3 Lab	

This course covers the principles of engineering drawings in visually communicating engineering designs and includes an introduction to computer-aided design (CAD). Topics include the development of visualization skills; orthographic projections; mechanical dimensioning and tolerancing practices; and the engineering design process. Assignments develop sketching and 2-D and 3-D CAD skills. The use of CAD software is an integral part of the course. (C-ID ENGR150)

ENGR 002	Statics	3
Hours:	3 Lecture/Discussion	

The study of two- and three-dimensional force systems acting on particles and rigid bodies in static equilibrium. Included are analysis of distributed forces, trusses, beams, frames and machines, shear and bending moment diagrams, center of mass, centroids, friction and moments of inertia. Additional topics may include fluid statics, forces in cables, Mohr's circle and virtual work.

Prerequisites: MATH 066 and PHYS 055 and MATH 067 or equivalent college courses with "C" or better or eligibility as determined by COS placement procedures (MATH 067 may be taken concurrently).

ENGR 003	Materials Sci & Engineering	4
Hours:	3 Lecture/Discussion 3 Lab	

This course presents the internal structures and resulting behaviors of materials used in engineering applications, including metals, ceramics, polymers, composites, and semiconductors. The emphasis is upon developing the ability both to select appropriate materials to meet engineering design criteria and to understand the effects of heat, stress, imperfections, and chemical environments upon material properties and performance. Laboratories provide opportunities to directly observe the structures and behaviors discussed in the course, to operate testing equipment, to analyze experimental data, and to prepare reports. (C-ID ENGR140B)

Prerequisites: CHEM 001 and PHYS 055 or equivalent college courses with "C" or better.

ENGR 004	Circuit Analysis	4
Hours:	3 Lecture/Discussion 3 Lab	

An introduction to the analysis of electrical circuits using analytical techniques based on the application of circuit laws and network theorems. Topics include the analysis of DC and AC circuits containing resistors, capacitors, inductors, dependent sources, operational amplifiers, and/or switches; natural and forced responses of first and second order RLC circuits; the use of phasors in AC analysis; AC power calculations; power transfer; and energy concepts.

The laboratory portion of the course provides an introduction to the construction and measurement of electrical circuits including: the basic use of electrical test and measurement instruments such as multimeters, oscilloscopes, power supplies, and function generators; the use of circuit simulation software; interpretation of measured and simulated data based on principles of circuit analysis for DC, transient, and sinusoidal steady-state (AC) conditions; elementary circuit design; practical considerations such as component value tolerance and non-ideal aspects of laboratory instruments; and construction and measurement of basic operational amplifier circuits.

(C-ID: ENGR260 and ENGR260L)

Prerequisites: MATH 081 and PHYS 056 or equivalent college courses with "C" or better (MATH 081 and/or PHYS 056 may be taken concurrently).

ENGR 110	Introduction to Engineering	2
Hours:	2 Lecture/Discussion	

This 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. (C-ID: ENGR 110)

ENGLISH

ENGL 001	College Reading & Composition	4
Hours:	4 Lecture/Discussion	

ENGL 1 is a college freshman composition course that emphasizes expository writing, close reading, cogent thinking, familiarity with information technology, and research strategies. This course requires a substantial research component and writing of a minimum of 6,000 words. Students enrolled in ENGL 1 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. (C-ID ENGL100)

Prerequisites: ENGL 251 or ENGL 261 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures.

ENGL 002	Logic and Composition	3
Hours:	3 Lecture/Discussion	

Equivalent Course: ENGL 002H.

This course gives students the opportunity to study and apply logic and cogent thinking to written and oral communication, as well as develop advanced writing skills. Students learn to recognize logical fallacies, analyze others' arguments, and produce their own arguments and solutions to problems, using primary and secondary research. This course requires substantial writing of a minimum of 6,000 words. Students enrolled in ENGL 2 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. (C-ID ENGL105)

Prerequisites: ENGL 001 or equivalent college course with "C" or better.

ENGL 004	Composition and Literature	3
Hours:	3 Lecture/Discussion	

Equivalent Course: ENGL 004H.

English 4 is an introduction to literature--including the short story, the novel, poetry, and drama--through close reading and analysis of literature and literary theory, discussion, research and writing. Supplemental learning assistance is available for students to strengthen skills and to reinforce mastery of concepts. Students enrolled in ENGL 4 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. (C-ID ENGL120)

Prerequisites: ENGL 001 or equivalent college course with "C" or better.

ENGL 010	Chicano Literature	3
Hours:	3 Lecture/Discussion	

This course examines Chicano literature through poetry, short stories, essays, drama, and novels, which are used as a means of providing a panoramic view of the Chicano experience. Students will be expected to write a minimum of 4,000 words. Students enrolled in ENGL 10 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course.

Prerequisites: ENGL 001 or equivalent college course with "C" or better.

- ENGL 014 Creative Writing 3**
Hours: 3 Lecture/Discussion
Equivalent Course: ENGL 014AB.
An introduction to the writing of fiction, poetry, and creative nonfiction. Using the peer workshop method, students will practice writing in multiple genres. Students enrolled in ENGL 14 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. (C-ID ENGL200)
Prerequisites: ENGL 251 or equivalent college course with “C” or better.
- ENGL 015 Survey of British Lit 1 3**
Hours: 3 Lecture/Discussion
This course examines major works of early British literature from Beowulf through the period of the Restoration. Students will be expected to write a minimum of 4,000 words. Students enrolled in ENGL 15 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. (C-ID ENGL160)
Prerequisites: ENGL 001 or equivalent college course with “C” or better.
- ENGL 016 Survey of British Lit 2 3**
Hours: 3 Lecture/Discussion
This course examines major works of British literature from the Romantic period to the present. Students will be expected to write a minimum of 4,000 words. Students enrolled in ENGL 16 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. (C-ID ENGL165)
Prerequisites: ENGL 001 or equivalent college course with “C” or better.
- ENGL 018 African American Literature 3**
Hours: 3 Lecture/Discussion
ENGL 018 is a study of African American literature including novels, short stories, poetry and plays, from the Colonial period to the present. Students will be expected to write a minimum of 4,000 words. Students enrolled in ENGL 18 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course.
Prerequisites: ENGL 001 or equivalent college course with “C” or better.
- ENGL 019 Women in Literature 3**
Hours: 3 Lecture/Discussion
This course examines literature about or by women including myths, short stories, essays, novels, and poetry. Students will be expected to write a minimum of 4,000 words. Students enrolled in ENGL 19 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course.
Prerequisites: ENGL 001 or equivalent college course with “C” or better.
- ENGL 030 American Literature 1 3**
Hours: 3 Lecture/Discussion
This course examines major works of early American literature from the Colonial period through the Civil War. Students will be expected to write a minimum of 4,000 words. Students enrolled in ENGL 30 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. (C-ID ENGL130)
Prerequisites: ENGL 001 or equivalent college course with “C” or better.
- ENGL 031 American Literature 2 3**
Hours: 3 Lecture/Discussion
This course examines major works of American literature from the end of the Civil War to the present. Students will be expected to write a minimum of 4,000 words. Students enrolled in ENGL 31 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. (C-ID ENGL135)
Prerequisites: ENGL 001 or equivalent college course with “C” or better.
- ENGL 044 World Literature 1 3**
Hours: 3 Lecture/Discussion
This course examines major works of ancient world literature from the classical period through the Renaissance. Students will be expected to write a minimum of 4,000 words. Students enrolled in ENGL 44 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. (C-ID ENGL140)
Prerequisites: ENGL 001 or equivalent college course with “C” or better.
- ENGL 045 World Literature 2 3**
Hours: 3 Lecture/Discussion
This course examines major works of modern world literature from the Enlightenment to the present. Students will be expected to write a minimum of 4,000 words. Students enrolled in ENGL 45 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. (C-ID ENGL145)
Prerequisites: ENGL 001 or equivalent college course with “C” or better.
- ENGL 046 Shakespeare 3**
Hours: 3 Lecture/Discussion
This course examines works of William Shakespeare. Students will be expected to write a minimum of 4,000 words. Students enrolled in ENGL 46 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course.
Prerequisites: ENGL 001 or equivalent college course with “C” or better.
- ENGL 123 Intro to Writing Consultancy 2**
Hours: 2 Lecture/Discussion
1 Lab
Equivalent Course: ENGL 123AD.
English 123 introduces students to the theory and practice of writing consultancy. Students will receive instruction both in effective techniques for responding to student writing and in the theoretical framework influencing student consultations. This course is designed for students working as consultants in the Writing Center, and all students in the course will receive practical experience in the form of one hour per week of supervised consulting in the Writing Center (TBA). Advisory on Recommended Preparation: ENGL 001 or equivalent college course with “C” or better
- ENGL 124 Writing Cons. Theory/Practice 2**
Hours: 2 Lecture/Discussion
1 Lab
English 124 offers students the chance to develop expertise in the theoretical and practical considerations involved in writing consultancy. Students will receive instruction in identifying, describing, and supporting student writers as they work with increasingly challenging problems in their writing. Students in English 124 will expand their practices for working with higher-order concerns in student writing, and will be introduced to strategies and techniques for working lower-order concerns in student writing. This course is designed for students

working as consultants in the Writing Center, and all students in the course will receive practical experience in the form of one hour per week of supervised consulting in the Writing Center (TBA).

Prerequisites: ENGL 123 or ENGL 123AD or equivalent college course with “P” or better.

ENGL 125 Writing Center Pedagogy 2
Hours: 2 Lecture/Discussion
1 Lab

English 125 is an intensive study in Rhetoric and Composition Pedagogy designed to introduce students to the pedagogical frameworks supporting the Writing Center and its practices. Students will learn about the history of writing instruction at the college level, becoming familiar with major pedagogical schools and theories, interacting with different models of the writing process and argumentation to develop an understanding of how these discourses influence learning. Students will use the knowledge from this intensive study to refine and theorize their consulting sessions in the Writing Center. This course is designed for students working as consultants in the Writing Center, and all students in the course will receive practical experience in the form of one hour per week of supervised consulting in the Writing Center (TBA).

Prerequisites: ENGL 124 or equivalent college course with “P” or better.

ENGL 126 Research Proj in WC Consulting 2
Hours: 2 Lecture/Discussion
1 Lab

English 126 is an intensive, individualized course of study intended for experienced Writing Center consultants interested in developing an area of expertise within the realm of tutoring. Having chosen their focus, students will investigate current research and scholarly work on the issue, analyzing their own practices and the practice of the Writing Center in light of the ongoing scholarly conversation. They will use their research to revise their practices, to develop new strategies and techniques, and to foster discussion among their peers at the Writing Center. This course is designed for students working as consultants in the Writing Center, and all students in the course will receive practical experience in the form of one hour per week of supervised consulting in the Writing Center (TBA).

Prerequisites: ENGL 124 or equivalent college course with “P” or better.

ENGL 251 Intro to Acad Read & Writing 4
Hours: 4 Lecture/Discussion

Equivalent Course: ENGL 261.

This course emphasizes analytical reading and writing as processes that result in compositions appropriate for entry into transfer-level academic study. Students enrolled in ENGL 251 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course.

Prerequisites: ENGL 360 or equivalent college course with “C” or better or eligibility as determined by COS placement procedures.

ENGL 261 Accel Intro to Read & Writing 4
Hours: 4 Lecture/Discussion

Equivalent Course: ENGL 251.

English 261 is an intensive and challenging course designed to accelerate basic skills students’ progress toward transfer-level English. This course emphasizes analytical reading and writing as processes that result in compositions appropriate for entry into transfer-level academic study, supporting students with basic reading and writing strategies as necessary. Students enrolled in ENGL 261 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Students enrolled in English 261 MUST also enroll in the corresponding English 405: Augmented Instruction in English.

Corequisites: ENGL 405.

ENGL 360 Reading and Writing Skills 6
Hours: 6 Lecture/Discussion
1 Lab

Equivalent Course: ENGL 360AB.

This course is a basic course in learning effective reading and writing strategies. The students will learn sentence structure, the writing process, composition construction, vocabulary acquisition, reading comprehension, and critical thinking. One additional outside Language Lab hour is required for this class. Students enrolled in ENGL 360 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course.

ENGL 380 Vocabulary Building for Tests 1
Hours: 1 Lecture/Discussion

Equivalent Course: ENGL 280.

This vocabulary building course assists students preparing for the State of California Court Interpreter examination and other standardized tests such as the SAT, ACT, GRE, and LSAT. Strategies for discerning the meaning of words through roots, suffixes and prefixes are covered as well as other test taking tips.

ENGL 400 Engl Supplemental Lrng Assist 0
Hours: .5 TO 1.14 Lab

English Supplemental Learning Assistance is intended to strengthen students’ reading and writing skills and reinforce their mastery of concepts. This open entry/open exit class is linked with ENGL 1, 2, 4, 251, 360 and all ESL credit and non-credit courses.

ENGL 405 Augmented Instruction in Engl 0
Hours: 1 TO 2 Activity

This course provides supplemental instruction to help students succeed in their English coursework (composition and reading). It will link with corresponding sections of English composition courses.

ENGLISH AS A SECOND LANGUAGE

ESL 320 Interm Writing and Grammar 3 4
Hours: 3 Lecture/Discussion
3 Lab

This ESL course is suitable for the lower-intermediate student who has a basic foundation in English grammar and writing. Students focus on writing coherent paragraphs and begin writing essays using the process approach. The course reinforces and builds upon grammar and writing skills, enabling the student to function in intermediate English academic and vocational situations. Students are introduced to basic computer and word processing skills. Students enrolled in ESL 320 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course.

Concurrent registration in ESL 321 (or appropriate ESL Reading/Vocabulary course) AND ESL 322 (or appropriate ESL (Listening/Speaking course) is strongly recommended.

Advisory on Recommended Preparation: ESL 321 and ESL 322 or equivalent college courses with “C” or better. ESL 321 and ESL 322 may be taken concurrently.

ESL 321 Interm Reading/Vocab 3 3
Hours: 3 Lecture/Discussion

This ESL course is suitable for the low intermediate student with some foundation in English reading and vocabulary skills. This course is designed to develop reading techniques, vocabulary, and study skills so that the student can comprehend and respond to written and spoken English. Students enrolled in ESL 321 may access the supplemental

learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Advisory on Recommended Preparation: ESL 311, 320 and 322 or equivalent college courses with “C” or better. ESL 320 and 322 may be taken concurrently.

ESL 322 Interm Listening/Speaking 3 2
Hours: 2 Lecture/Discussion

Equivalent Course: ESL 332AB.

This ESL course is suitable for the low intermediate student who has a basic foundation in English pronunciation and speaking skills. This course is designed to improve speaking skills so that the student can comprehend and respond to spoken English in academic and vocational situations. Students enrolled in ESL 322 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Advisory on Recommended Preparation: ESL 312 or equivalent college course with “C” or better, or eligibility based on COS placement procedures or skill competencies as determined by department assessment. Concurrent registration in ESL 320 (or appropriate ESL Writing/Grammar course) AND ESL 321 (or appropriate Reading/Vocabulary course) is STRONGLY recommended.

ESL 330 Interm Writing/Grammar 4 4
Hours: 3 Lecture/Discussion
3 Lab

This ESL course is suitable for the low intermediate student with some foundation in English reading and vocabulary skills. This course is designed to develop reading techniques, vocabulary, and study skills so that the student can comprehend and respond to written and spoken English. Students enrolled in ESL 321 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Advisory on Recommended Preparation: ESL 311 or equivalent college course with “C” or better, or eligibility based on COS placement procedures or skill competencies as determined by department assessment. Concurrent registration in ESL 320 (or appropriate ESL Writing/Grammar course) AND ESL 332AB (or appropriate ESL Pronunciation/Speaking course) is STRONGLY recommended.

ESL 331 Interm Reading/Vocabulary 4 3
Hours: 3 Lecture/Discussion

This ESL course is suitable for the high intermediate student with a foundation in English reading and vocabulary skills. This course is designed to expand reading techniques, vocabulary, and study skills so that the student can comprehend and respond to written and spoken English in intermediate to advanced academic and vocational situations. Students enrolled in ESL 331 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 330 (or appropriate ESL Writing/Grammar course) AND ESL 332 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended. Advisory on Recommended Preparation: ESL 321 or equivalent college course with “C” or better

ESL 332 Interm Listening/Speaking 4 2
Hours: 2 Lecture/Discussion

This ESL course is suitable for the high intermediate student who has a good foundation in English pronunciation and speaking skills. This course is designed to improve speaking skills so that the student can comprehend and respond to spoken English in academic and vocational situations. Students enrolled in ESL 332 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 330 (or appropriate ESL Writing/Grammar course) AND ESL 331 (or appropriate Reading/Vocabulary course) is STRONGLY recommended.

ESL 340 Adv Writing and Grammar 5 4
Hours: 3 Lecture/Discussion
3 Lab

This ESL course is suitable for the low-advanced student with a strong foundation in English grammar and writing. Using the process writing approach, students write essays in response to a variety of prompts. This course is designed to review and build upon grammar and writing skills, enabling the student to function in advanced English academic and vocational courses. Students will use basic computer and word processing skills necessary for academic work. Students enrolled in ESL 340 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Advisory on Recommended Preparation: ESL 330 or equivalent college course with “C” or better, or eligibility based on COS placement procedures or skill competencies as determined by department assessment. Concurrent registration in ESL 341 (or appropriate ESL Reading/Vocabulary course) AND ESL 342 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended.

ESL 341 Adv Reading/Vocabulary 5 3
Hours: 3 Lecture/Discussion

This ESL course is suitable for the low advanced student with a strong foundation in English reading and vocabulary skills. The course is designed to expand reading techniques, vocabulary, and study skills so that the student can comprehend and respond to written and spoken English in advanced academic and vocational situations. Students enrolled in ESL 341 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 340 (or appropriate ESL Writing/Grammar course) AND ESL 342 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended. Advisory on Recommended Preparation: ESL 331 or equivalent college course with “C” or better

ESL 342 Adv Listening/Speaking 5 2
Hours: 2 Lecture/Discussion

Equivalent Course: ESL 352AB.

This ESL course is suitable for the low advanced student who has a strong foundation in English listening and speaking skills. This advanced ESL course is designed for the student to improve listening and speaking skills and to comprehend and respond to spoken English in advanced academic and vocational situations. Students enrolled in ESL 342 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 340 (or appropriate ESL Writing/Grammar course) AND ESL 341 (or appropriate Reading/Vocabulary course) is STRONGLY recommended. Advisory on Recommended Preparation: ESL 332 or equivalent college course with “C” or better

ESL 350 Adv Writing/Grammar 6 3
Hours: 3 Lecture/Discussion
1 Lab

This ESL course is suitable for the advanced student with demonstrated knowledge and experience in English grammar and writing. The course is designed to review and refine grammar for application in pre-collegiate assignments, enabling the student to successfully transition into mainstream college course work. Students will use basic computer and word processing skills necessary for academic work. One additional outside Language Lab hour is required for this class. Students enrolled in ESL 350 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Advisory on Recommended Preparation: ESL 340 and ESL 351 and ESL 352 or equivalent college courses with “C” or better. ESL 351 may be taken concurrently; ESL 352 may be taken concurrently.

ESL 351 Adv Reading/Vocabulary 6 3
 Hours: 3 Lecture/Discussion
 This ESL course is suitable for the high advanced student with demonstrated ability to comprehend written English at an advanced level. The course is intended to expand reading techniques, vocabulary, and study skills so that the student can successfully transition into mainstream course work. Students enrolled in ESL 351 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Advisory on Recommended Preparation: ESL 341 or equivalent college course with "C" or better, or eligibility based on COS placement procedures or skill competencies as determined by department assessment. Concurrent registration in ESL 350 (or appropriate ESL Writing/Grammar course) and ESL 352AB (or appropriate ESL Pronunciation/Speaking course) is STRONGLY recommended.

ESL 352 Adv Listening/Speaking 6 2
 Hours: 2 Lecture/Discussion
 This ESL course is suitable for the high advanced student who demonstrates the ability to comprehend and respond to spoken English in advanced academic and vocational situations. Students enrolled in ESL 352 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 350 (or appropriate ESL Writing/Grammar course) AND ESL 351 (or appropriate Reading/Vocabulary course) is STRONGLY recommended. Advisory on Recommended Preparation: ESL 342

ESL 402 Beginning Writing/Grammar 1 0
 Hours: 3 Lecture/Discussion
 3 Lab

This ESL course is suitable for the true beginner with little or no knowledge of English grammar and writing conventions. Students focus on writing at the sentence level. The course is designed to provide an introduction to English grammar and writing skills enabling students to function minimally in basic English academic and vocational situations. Students are introduced to basic computer and word processing skills. Students enrolled in ESL 402 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 403 (or appropriate ESL Reading/Vocabulary course) AND ESL 404 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended.

ESL 403 Beginning Reading/Vocabulary 1 0
 Hours: 3 Lecture/Discussion
 This ESL course is suitable for the true beginner with little or no knowledge of English reading or vocabulary skills. The course is designed as an introduction to basic reading techniques, vocabulary and study skills, and basic writing and spoken English in academic and vocational situations. Students enrolled in ESL 403 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 402 (or appropriate ESL Writing/Grammar course) AND ESL 404 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended.

ESL 404 Beg. Listening/Speaking 1 0
 Hours: 2 Lecture/Discussion

Equivalent Course: ESL 412AB.

This ESL course is suitable for the low beginning student, the true beginner, and is designed to introduce students to basic listening and speaking skills and to develop their ability to comprehend and respond to basic spoken English. Students enrolled in ESL 404 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 402 (or appropriate Writing/Grammar course) AND ESL 403 (or appropriate ESL Reading/Vocabulary course) is STRONGLY recommended.

ESL 410 Beginning Writing/Grammar 0
 Hours: 3 Lecture/Discussion
 3 Lab

This ESL course is suitable for the high-level beginner with minimal knowledge of English grammar and writing conventions. Students focus on writing accurate sentences and developing paragraph skills. The course is designed to reinforce and build upon basic grammar and writing skills, enabling the students to function in basic English academic and vocational situations. Students are introduced to basic computer and word processing skills necessary to academic work. Students enrolled in ESL 410 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 411 (or appropriate ESL Reading/Vocabulary course) AND ESL 412 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended.

ESL 411 Beginning Reading/Vocabulary 2 0
 Hours: 3 Lecture/Discussion

This ESL course is suitable for the high-level beginning student with basic knowledge of English reading and vocabulary skills. This course is designed for students to develop and expand reading techniques, vocabulary and study skills, and to comprehend and respond to written and spoken English in basic academic and vocational situations. Students enrolled in ESL 411 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 410 (or appropriate ESL Writing/Grammar course) AND ESL 412 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended.

ESL 412 Beg. Listening/Speaking 2 0
 Hours: 2 Lecture/Discussion

This beginning ESL is designed for students to develop basic speaking skills and to comprehend and respond to basic spoken English. Students enrolled in ESL 412 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 410 (or appropriate Writing/Grammar course) AND ESL 411 (or appropriate ESL Reading/Vocabulary course) is STRONGLY recommended.

ESL 420 Intermediate Writing/Grammar 3 0
 Hours: 3 Lecture/Discussion
 3 Lab

This ESL course is suitable for the lower-intermediate student who has a basic foundation in English grammar and writing. Students focus on writing coherent paragraphs and begin writing essays using the process approach. The course reinforces and builds upon grammar and writing skills, enabling the student to function in intermediate English academic and vocational situations. Students are introduced to basic computer and word processing skills. Students enrolled in ESL 420 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 421 (or appropriate ESL Reading/Vocabulary course) AND ESL 422 (or appropriate ESL Pronunciation/Speaking course) is strongly recommended.

ESL 421 Intermediate Reading/Vocab 3 0
 Hours: 3 Lecture/Discussion

This ESL course is suitable for the low intermediate student with some foundation in English reading and vocabulary skills. This course is designed to develop reading techniques, vocabulary, and study skills so that the student can comprehend and respond to written and spoken English. Students enrolled in ESL 421 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 420 (or appropriate ESL Writing/Grammar course) AND ESL 422 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended.

- ESL 422 Interm Listening/Speaking 3 0**
Hours: 2 Lecture/Discussion
Equivalent Course: ESL 432AB.
This ESL course is suitable for the low intermediate student who has a basic foundation in English pronunciation and speaking skills. This course is designed to improve speaking skills so that the student can comprehend and respond to spoken English in academic and vocational situations. Students enrolled in ESL 422 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 420 (or appropriate ESL Writing/Grammar course) AND ESL 421 (or appropriate Reading/Vocabulary course) is STRONGLY recommended.
- ESL 430 Intermediate Writing/Grammar 4 0**
Hours: 3 Lecture/Discussion
3 Lab
This ESL course is suitable for the high-intermediate student with some foundation in English reading and vocabulary skills. This course is designed to develop reading techniques, vocabulary, and study skills so that the student can comprehend and respond to written and spoken English. Students enrolled in ESL 430 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 431 (or appropriate ESL Reading/Vocabulary course) AND ESL 432 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended.
- ESL 431 Intermediate Reading/Vocab 4 0**
Hours: 3 Lecture/Discussion
This ESL course is suitable for the high intermediate student with a foundation in English reading and vocabulary skills. This course is designed to expand reading techniques, vocabulary, and study skills so that the student can comprehend and respond to written and spoken English in intermediate to advanced academic and vocational situations. Students enrolled in ESL 431 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 430 (or appropriate ESL Writing/Grammar course) AND ESL 432 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended.
- ESL 432 Interm Listening/Speaking 4 0**
Hours: 2 Lecture/Discussion
This ESL course is suitable for the high intermediate student who has a good foundation in English pronunciation and speaking skills. This course is designed to improve speaking skills so that the student can comprehend and respond to spoken English in academic and vocational situations. Students enrolled in ESL 432 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 430 (or appropriate ESL Writing/Grammar course) AND ESL 431 (or appropriate Reading/Vocabulary course) is STRONGLY recommended.
- ESL 440 Advanced Writing/Grammar 5 0**
Hours: 3 Lecture/Discussion
3 Lab
This ESL course is suitable for the low-advanced student with a strong foundation in English grammar and writing. Using the process writing approach, students write essays in response to a variety of prompts. This course is designed to review and build upon grammar and writing skills, enabling the student to function with appropriate English writing skills in academic and vocational courses. Students will use basic computer and word processing skills necessary for academic work. Students enrolled in ESL 440 may access supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 441 (or appropriate ESL Reading/Vocabulary course) AND ESL 442 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended.
- ESL 441 Advanced Reading/Vocab 5 0**
Hours: 3 Lecture/Discussion
This ESL course is suitable for the low advanced student with a strong foundation in English reading and vocabulary skills. The course is designed to expand reading techniques, vocabulary, and study skills so that the student can comprehend and respond to written and spoken English in advanced academic and vocational situations. Students enrolled in ESL 441 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 440 (or appropriate ESL Writing/Grammar course) AND ESL 442 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended.
- ESL 442 Adv Listening/Speaking 5 0**
Hours: 2 Lecture/Discussion
Equivalent Course: ESL 452AB.
This ESL course is suitable for the low advanced student who has a strong foundation in English pronunciation and speaking skills. This advanced ESL course is designed for the student to improve speaking skills and to comprehend and respond to spoken English in advanced academic and vocational situations. Students enrolled in ESL 442 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Advisory on Recommended Preparation: ESL 432 or equivalent college course with "C" or better, or eligibility based on COS placement procedures or skill competencies as determined by department assessment. Concurrent registration in ESL 440 (or appropriate ESL Writing/Grammar course) AND ESL 441 (or appropriate Reading/Vocabulary course) is STRONGLY recommended.
- ESL 450 Advanced Writing/Grammar 6 0**
Hours: 3 Lecture/Discussion
1 Lab
This ESL course is suitable for the high-advanced student with demonstrated knowledge and experience in English grammar and writing. The course is designed to review and refine grammar for application in pre-collegiate assignments, enabling the student to successfully transition into mainstream college course work. Students will use basic computer and word processing skills necessary for academic work. Students enrolled in ESL 450 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit, non-credit course. Concurrent registration in ESL 451 (or appropriate ESL Reading/Vocabulary course) AND ESL 452 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended.
Concurrent registration in ESL 451 (or appropriate ESL Reading/Vocabulary course) AND ESL 452 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended.
- ESL 451 Adv Reading/Vocabulary 6 0**
Hours: 3 Lecture/Discussion
This ESL course is suitable for the high advanced student with demonstrated ability to comprehend written English at an advanced level. The course is intended to expand reading techniques, vocabulary, and study skills so that the student can successfully transition into mainstream course work. Students enrolled in ESL 451 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 450 (or appropriate ESL Writing/Grammar course) AND ESL 452 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended. Concurrent registration in ESL 450 (or appropriate ESL Writing/Grammar course) AND ESL 452 (or appropriate ESL Listening/Speaking course) is STRONGLY recommended.

ESL 452 Adv Listening/Speaking 6 0

Hours: 2 Lecture/Discussion

This ESL course is suitable for the high advanced student who demonstrates the ability to comprehend and respond to spoken English in advanced academic and vocational situations. Students enrolled in ESL 452 may access the supplemental learning assistance by enrolling in ENGL 400, an open entry/open exit non-credit course. Concurrent registration in ESL 450 (or appropriate ESL Writing/Grammar course) AND ESL 451 (or appropriate Reading/Vocabulary course) is STRONGLY recommended.

ENVIRONMENT CONTROL TECHNOLOGY**ECT 242 Air Conditioning Sheet Metal 4**Hours: 3 Lecture/Discussion
3 Lab**Materials Fee: \$20.00****Equivalent Course: ITEC 142, ITEC 242.**

This course provides an introduction to basic air conditioning sheet metal theory, design, drafting, bending, shaping, soldering, tools and equipment used to fabricate fittings.

ECT 260 Basic Refrigeration 2Hours: 1.5 Lecture/Discussion
1.5 Lab

Introductory course in residential air conditioning and refrigeration that covers applied electrical and refrigeration theory. The students will learn how to use electrical meters to troubleshoot and diagnose electrical problems. In addition, proper brazing techniques, tools and safety practices are taught as applied to various other trades.

ECT 261 Intro to Air Cond/Refrig C/D 2Hours: 1.5 Lecture/Discussion
1.5 Lab

This introductory course covers commercial and domestic air conditioning and refrigeration. The students will study the practical wiring circuits and diagnosing of electrical problems found in both commercial and domestic applications. The student will also become familiar with various types of electrical motors, and their individual characteristics. This course provides essential knowledge for students seeking further advancement in a career. Advisory on Recommended Preparation: ECT 260 or equivalent college course with "C" or better

ECT 262 Heating Systems & Controls 2Hours: 1.5 Lecture/Discussion
1.5 Lab

ECT 262 is an advanced course offered in residential and light commercial heating that covers theory, design, controls, and operation of modern day space heating systems. The students will study the practical wiring of circuits, and the diagnosing of problems found in both residential and light-commercial applications. In addition, the students will gain an understanding of both L.P. and natural gas fundamentals and applications, controls and safety, with particular emphasis given to safe work habits and practices. This course provides essential knowledge for a student seeking further advancement in his/her career.

ECT 263 Commercial Refrig Sys Controls 2Hours: 1.5 Lecture/Discussion
1.5 Lab

An advanced course that introduces commercial refrigeration. The course covers theory, design, controls, and operation of modern day commercial refrigeration systems. The students will study the practical wiring of circuits, various defrosting methods, piping, design, sizing, and controls commonly used in the industry. Advisories on Recom-

mended Preparation: ECT 280 and 281 or equivalent college courses with "C" or better

ECT 280 Elec. & Controls for HVAC 4Hours: 3 Lecture/Discussion
3 Lab**Equivalent Course: ECT 180.**

This basic course in electrical theory and applications of controls for the heating, ventilating, air conditioning/refrigeration controls class explores the theories and concepts of Ohms and Kirchoff's laws, in addition to the theories and concepts of refrigeration.

Corequisites: ECT 281.**ECT 281 Basic Air Conditioning 12**Hours: 11 Lecture/Discussion
3 Lab**Materials Fee: \$20.00****Equivalent Course: ECT 181.**

ECT 281 is an introductory lecture and demonstration course in residential air conditioning, refrigeration and heating that covers applied refrigeration theory, including how to evacuate and charge systems, diagnose refrigeration problems and how to properly install an entire duct system in the project house. In addition, proper brazing techniques, tools and safety practices are taught as applied to various other trades.

Prerequisites: ECT 280 or equivalent college course with "C" or better (ECT 280 may be taken concurrently).**ECT 282 Adv Air Cond/Refrig Com/Dom 12**Hours: 9 Lecture/Discussion
9 Lab**Materials Fee: \$15.00****Equivalent Course: ECT 182.**

An advanced course offered in Environmental Control Technology that covers commercial and domestic air conditioning and refrigeration theory. Topics include the fundamentals of wiring circuits and the concept of electrical problem solving as it relates to both commercial and residential applications. Topics also include using methods to calculate heat loads values necessary to sizing equipment in the industry. Advisory on Recommended Preparation: ECT 281 or equivalent college course with "C" or better

ETHNIC STUDIES**ETHN 001 Black American Studies 3**

Hours: 3 Lecture/Discussion

This course uses an interdisciplinary approach to Black Studies covering periods of social, cultural and historical development. Topics include African civilization, slavery, the Diaspora, abolition, reconstruction, segregation, Harlem Renaissance, and the Civil Rights Movement. Field trips may be a part of this course. Advisory on Recommended Preparation: ENGL 251 or ENGL 261 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures

ETHN 002 American Indian Studies 3

Hours: 3 Lecture/Discussion

Using an interdisciplinary approach, this course will focus on the historical, social, religious, ecological, economic, and artistic characteristics of various Indian Nations, as well as U.S. Government policy toward Indians. Special attention will be given to San Joaquin Valley Indians. Field trips may be part of this course. Advisory on Recommended Preparation: ENGL 251 or ENGL 261 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures

ETHN 003 Mexican-American Studies 3
 Hours: 3 Lecture/Discussion
 The course studies the Mexican-American community and culture in American society from Pre-Colombian roots. The Mexican-American contributions and conflicts in American society are studied using an interdisciplinary approach (anthropology, history, sociology, literature, art and music). Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures

ETHN 004 Asian American Studies 3
 Hours: 3 Lecture/Discussion
 This course explores the Asian immigrant experience in the United States (Southeast Asian, Chinese, Japanese, Korean, and Filipino). Using an interdisciplinary approach (social, historical, religious, geographic, economic, linguistic, and artistic), special attention will be given to major immigrant populations in the San Joaquin Valley (Laotian, Hmong, Mien, and Lahu). Advisory on Recommended Preparation: ENGL 251 or ENGL 261 or equivalent college course with "C" or better, or eligibility for ENGL 1 as determined by COS Placement Procedures

ETHN 005 American Ethnic Origins 3
 Hours: 3 Lecture/Discussion
 An examination of the various ethnic groups that came to America from Europe. Topics include: motives for migration, immigration, assimilation, social mobility, social change and the creation of a modern multicultural society. Special attention will be given to the migration of Euro-Americans into the San Joaquin Valley. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 001 as determined by COS Placement Procedures

FASHION

FASH 076 Textiles 3
 Hours: 3 Lecture/Discussion
 Introduction to basic textiles; the study of fibers, yarns and fabric identifications, with emphasis on various processes of textile manufacturing, fabric finishes, sustainability/environmental concerns and appropriate for end use. This course qualifies for various Fashion Vocational Certificates. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 001 as determined by COS Placement Procedures

FASH 140 Intro to the Fashion Industry 3
 Hours: 3 Lecture/Discussion
 Overview of the fashion industry including the organization, structure and interrelationship of industries and services in apparel and fashion businesses. Includes terminology, designers, trade organizations and publications, as well as career and professional opportunities.

FASH 141 Principles of Fashion 3
 Hours: 3 Lecture/Discussion
 Analysis of clothing and fashion, including the interplay among social, psychological, cultural, economic, aesthetic, and physical factors. Includes the analysis of wardrobe, color selection, image and line for individuals.

FASH 142 Visual Merchandising and Sales 3
 Hours: 3 Lecture/Discussion
 Instruction in successfully merchandising a retail store, daily operations, inventory control, customer service and managing the sales force. Course is designed to develop competencies in entry-level retail management and should be taken before or concurrent with WEXP193Z, a work experience course.

FASH 160 Clothing Construction 3
 Hours: 2 Lecture/Discussion
 3 Lab

Equivalent Course: FASH 160AB.

Instruction in the principles of clothing construction from pattern to completed garment, with an emphasis on fabric performance, fit and construction techniques for both knit and woven fabrics.

FASH 161 Advanced Sewing and Tailoring 3
 Hours: 2 Lecture/Discussion
 3 Lab

Equivalent Course: FASH 161AB.

The study of advanced sewing techniques, including traditional and modern tailoring methods. Advisory on Recommended Preparation: FASH 160AB or FASH 160 or equivalent college course with "C" or better

FASH 162 Fashion Design-Pattern Making 3
 Hours: 1.5 Lecture/Discussion
 4.5 Lab

Equivalent Course: FASH 162AB.

A study of apparel design using flat pattern techniques including design, drafting, and construction of garments. Advisory on Recommended Preparation: FASH 160 or FASH 161 or equivalent college course with "C" or better

FASH 263 Basic Sewing 3
 Hours: 2 Lecture/Discussion
 3 Lab

A basic sewing construction course, including commercial pattern use and clothing construction techniques.

FIRE TECHNOLOGY

FIRE 125 Fund Fire/Apparatus/Equipment 3
 Hours: 3 Lecture/Discussion

This class is designed to provide students with information regarding design features, construction materials, performance factors, and maintenance requirements for motorized fire apparatus. Topics include laws, standards and regulations, design, construction, and maintenance requirements for fire apparatus. Operational considerations including tactics and strategy, safety and driving characteristics of pumping apparatus, aerial ladders, aerial platforms and specialized equipment are also presented.

FIRE 155 Fire Behavior & Combustion 3
 Hours: 3 Lecture/Discussion

Theory and fundamentals of how and why fires start, spread, and are controlled; an in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents, and fire control techniques. This is one of the first courses a student should take in the sequence of fire technology classes. It covers the basic physical laws of fire combustion and extinguishing processes. It is part of the series of courses recommended by the Chancellor's Office for students in California Community Colleges.

FIRE 157 Fire Prevention Technology 3
 Hours: 3 Lecture/Discussion

Provides information regarding the philosophy of fire prevention, organization and operation of a fire prevention bureau, application of fire codes, identification and correction of fire hazards, and the relationship of fire prevention with fire safety education and detection and suppression systems.

FIRE 159 Intro to Fire Protection Org 3
 Hours: 3 Lecture/Discussion
 This course provides an overview to fire protection, career opportunities in fire protection and related fields, philosophy and history of fire protection/service, fire loss analysis, organization and function of public and private fire protection services, fire departments as part of local government, laws and regulations affecting the fire service, fire service nomenclature, specific fire protection functions, basic fire chemistry and physics, introduction to fire protection systems, introduction to fire strategy and tactics.

FIRE 160 Fire and Emergency Safety 3
 Hours: 3 Lecture/Discussion
 This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.

FIRE 163 Fire Protection Equip/System 3
 Hours: 3 Lecture/Discussion
 This is one of six core classes for students pursuing a degree/certificate in Fire Technology. Topics include the design, installation, and operation of fire detection systems, alarm systems and extinguishing systems.

FIRE 166 SFM - Fire Prevention 1 2.5
 Hours: 2.5 Lecture/Discussion
Materials Fee: \$80.00
 This course instructs students in fire and life safety inspections for the company officer. The student will obtain basic knowledge and skills as related to the company officer's role in fire prevention, the relationship between life safety and building construction, the elements of a quality company inspection program, and how to address complex hazards encountered during a fire prevention inspection.

FIRE 168 S.F.M. Training Instructor 1A 2
 Hours: 2 Lecture/Discussion
Materials Fee: \$80.00
Equivalent Course: FIRE 171.
 This course is recommended for Fire Service personnel having training responsibilities within their fire department. Techniques of Fire Service Instruction 1 A deals with such topics as: terms pertaining to instruction; supplementary instruction sheets; concepts of learning; course development; lesson development; planning, organizing and managing instructional activities; teaching methods and teaching aids as they relate to teaching both manipulative skills and technical information in the fire service.

FIRE 169 S.F.M. Training Instructor 1B 2
 Hours: 2 Lecture/Discussion
Materials Fee: \$80.00
Equivalent Course: FIRE 172.
 This course is recommended for Fire Service personnel who have training responsibilities within their fire department. Techniques of Fire Service Instruction 1B deals with such topics such as: terms pertaining to instruction; supplementary instruction sheets; concepts of learning; course development; lesson development; planning, organizing and managing instructional activities; teaching methods and teaching aids as they relate to teaching both manipulative skills and technical information in the fire service.

FIRE 173 S.F.M. Command 1A 2
 Hours: 2 Lecture/Discussion
Materials Fee: \$80.00
 This course provides the Company Officer with information and experience in command and control techniques at the scene of an

emergency. It is part of the Fire Officer Certification and is taught in compliance with regulations and requirements of the California State Fire Marshal's Office.

FIRE 174 S.F.M. Fire Command 1B 2
 Hours: 2 Lecture/Discussion
Materials Fee: \$80.00
 This course provides the Fire Company Officer with information and experience in command and control techniques at the scene of a hazardous materials emergency. The course emphasizes the ability to issue commands and how to respond to a command given by a higher authority during an emergency. It is part of the performance requirements for a Fire Service Officer.

FIRE 182 Build. Constr. for Fire Safety 3
 Hours: 3 Lecture/Discussion
 The study of the components of building construction relating to fire safety. Elements of construction and design of building. Development and evolution of building in relationship to past fires.

FIRE 252 S.F.M. Fire Investigation 1A 2
 Hours: 2 Lecture/Discussion
Materials Fee: \$80.00
 SFM Fire Investigation 1A is designed for students who are currently employed in a fire service area and are interested in advancing their career into the area of investigation. Students will study the techniques of fire scene investigation, fire indicators and fire behavior. Additionally, the course will expose students to arson laws, writing documentation and insurance reports. This course applies toward investigator certification by the California State Fire Marshal's Office.

FIRE 270 Basic Fire Fighter I Academy 15
 Hours: 12 Lecture/Discussion
 9 Lab
Materials Fee: \$210.00
Equivalent Course: FIRE 170.
 This class includes manipulative and technical training in basic concepts in fire service organization and theories of fire control including: fire department organization, identification, use and maintenance of fire equipment, hazardous materials, structural and wild land fire control, auto extrication, and fire fighter safety.
Prerequisites: FIRE 159 and EMT 251 or equivalent college courses with "C" or better.

FIRE 275 SFM Command 1C 2
 Hours: 2.3 Lecture/Discussion
Materials Fee: \$80.00
 This course is designed to teach the Company Officer how to safely and effectively operate at a wild land/urban interface fire incident (I-Zone). It prepares them to evaluate individual structures for survivability and how to employ the tactics and strategies necessary to protect the public and their property from a wildland fire.

FIRE 277 S.F.M. Fire Management 1 2
 Hours: 2 Lecture/Discussion
Materials Fee: \$80.00
 Reviews management styles of leadership and, through the use of in-action exercises, simulations, and case studies, allows each student to experience how these basic principles can be effectively applied for on-the-job results. This course is one of the State Fire Marshal training classes needed for Fire Officer certification.

FIRE 280 Fire Fighter 2 Academy 5
Hours: 4 Lecture/Discussion
3 Lab

Materials Fee: \$50.00

Fire Fighter 2 Academy is the second of two courses in the State Fire Marshal's Fire Fighter series. This course expands on areas which were introduced in the Fire Fighter 1 curriculum. The course concentrates on the subjects of rescue and fire prevention and investigation. Successful completion of this course will include certification in "Confined Space Rescue Operations." Students must have access to NFPA approved protective clothing for structural fire fighters.

Prerequisites: FIRE 270 or equivalent college course with "C" or better.

GEOGRAPHY

GEOG 001 Physical Geography 3
Hours: 3 Lecture/Discussion

An investigation of weather, climate, landforms, and maps. An emphasis is placed on using the methodologies of scientific inquiry to explain the distribution of physical phenomena on the surface of the earth and on examining the relationship between man and the natural environment. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures AND MATH 200 or equivalent college course with "C" or better or eligibility for MATH 230 as determined by COS Placement Procedures (C-ID GEOG110)

GEOG 001L Physical Geography Lab Class 1
Hours: 3 Lab

Observations, computer projects, experiments, and a field trip are designed to familiarize students with techniques used in physical geography. (C-ID GEOG111)

Corequisites: GEOG 001.

GEOG 002 World Regional Geography 3
Hours: 3 Lecture/Discussion

Aspects of physical and cultural geography such as landforms, climate, vegetation, natural resources, demography, cultural diversity, and political and economic organization are applied to various world regions. An emphasis is placed on examining man-land relationships, multicultural issues, and understanding world problems from a geographic perspective. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better, or eligibility for ENGL 1 determined by COS Placement Procedures (C-ID GEOG125)

GEOLOGY

GEOG 001 Physical Geology 4
Hours: 3 Lecture/Discussion
3 Lab

An introduction to the principles of geology with emphasis on Earth processes. This course focuses on the internal structure and origin of the Earth and the process that change and shape it. The laboratory component focuses on the identification of rocks and minerals, topographic and geologic map exercises demonstrating the work of water, wind, ice and gravity and effects of tectonic activity. Advisories on Recommended Preparation: ENGL 251 and MATH 200 or equivalent college courses with "C" or better or eligibility for ENGL 001 and MATH 230 as determined by COS Placement Procedures (C-ID GEOL101)

GEOG 004 Earth History 3
Hours: 3 Lecture/Discussion

Equivalent Course: GEOL 004H.

This course examines the geologic evidence for the major events in Earth's history, including: the formation of the crust, atmosphere, and

oceans; the tectonic history of the continents; and mass extinctions and the record of life on Earth. Advisories on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 determined by COS Placement Procedures, and MATH 200 or equivalent college course with "C" or better or eligibility for MATH 230 as determined by COS Placement Procedures (C-ID GEOL110)

GEOL 004L Earth History Lab 1
Hours: 3 Lab

Equivalent Course: GEOL 104L.

This course is an OPTIONAL lab accompaniment to GEOL 4/4H Earth History. Geologic maps, rock specimens, and fossils constitute the basis for the exploration of past events on Earth, including the formation of mountain ranges, movement of the continents, evolution of life, and climate change. (C-ID GEOL110L)

Corequisites: GEOL 004.

GEOL 005 Earth History 4
Hours: 3 Lecture/Discussion
3 Lab

This course examines the geologic evidence for the major events in Earth's history, including: the formation of the crust, atmosphere, and oceans; the tectonic history of the continents; and mass extinctions and the record of life on Earth. Course topics are reinforced by the analysis of rock specimens, fossils, and geologic maps during laboratory sessions. Advisories on Recommended Preparation: ENGL 251 or eligibility for ENGL 001 and MATH 360 or eligibility for MATH 200 or equivalent college courses with "C" or better (C-ID GEOL111)

GEOL 012 Environmental Geology 3
Hours: 3 Lecture/Discussion

Geologic hazards, natural resources, and pollution constitute the core themes of this study of man's interactions with earth systems. The consequences of human modification of natural systems and the geological underpinnings of modern society are emphasized. Topics include flooding, earthquakes, volcanic eruptions, plate tectonics, energy resources, water resources, mineral resources, climate change, the greenhouse effect, waste disposal, water pollution, and the carbon, nitrogen, and water cycles. Scientific and sociopolitical approaches to environmental issues are explored. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better, or eligibility for ENGL 1 as determined by COS Placement Procedures and MATH 200 or equivalent college course with a "C" or better, or eligibility for MATH 230 as determined by the COS Placement Procedures. (C-ID GEOL 130)

GEOL 150 Geology of Kings Canyon NP .5
Hours: .5 Lecture/Discussion
.5 Lab

This field trip course explores the geology of Kings Canyon National Park. Major themes include: rivers and valley development, glaciers and climate change, the formation of the Sierra Nevada Mountains and the rocks therein, plate tectonics and the geologic history of California. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 determined by COS Placement Procedures

GEOL 151 Geology of the Mojave Desert 1
Hours: 1 Lecture/Discussion
.5 Lab

Equivalent Course: GEOL 251.

This field trip course introduces the geology and natural resources of the Mojave Desert. Major themes include tectonics and structure, mineral resources and mining, and energy resources. Some geologic features will be discussed en route, while extended stops, that include

some hiking, allow closer examination of phenomena such as faults, volcanoes, mines, and solar power plants. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better

GEOL 152 Geology of the Central Coast 1
Hours: 1 Lecture/Discussion
.5 Lab

Equivalent Course: GEOL 252.

This field trip course introduces the geology of the Central Coast. Major themes include tectonics, geologic hazards, energy and water resources, pollution, and coastline and surficial processes. Some features will be discussed en route. Extended stops that include some hiking allow closer examination of phenomena (e.g., the San Andreas Fault and Morro Rock). Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 determined by COS Placement Procedures

GEOL 153 Granite, Glaciers, and Gold 1
Hours: 1 Lecture/Discussion
.5 Lab

This field trip course explores the geology of the central Sierra Nevada. Primary topics include: the formation and evolution of Yosemite Valley, the Mother Lode gold deposits, and the central Sierra foothills (the Western Metamorphic Belt). Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 determined by COS Placement Procedures

GEOL 154 Volcanoes of Northern CA 2
Hours: 1.5 Lecture/Discussion
1.5 Lab

This extended field trip explores northern California's sleeping volcanoes: Mt Shasta, Medicine Lake Volcano and Mt Lassen. Volcanic features, landforms, processes, and hazards constitute the major themes of this class. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 determined by COS Placement Procedures

GRAPHIC DESIGN

GD 151 Independent Study - GD 1 - 4
Hours: 3 TO 12 Lab

Equivalent Course: GD 151AD.

The purpose of this independent study is to provide an opportunity for students, under the direction of an instructor, to participate in advanced individualized studies to supplement and enhance existing courses. Independent Study requires a minimum of 52.5 hours of academic work per unit. In addition, student must file an Independent Study form through the Admissions Office to obtain approval to enroll. Advisory on Recommended Preparation: GD 159 or equivalent college course with "C" or better

GD 159 Adobe Illustrator 2
Hours: 1.5 Lecture/Discussion
1.5 Lab

Materials Fee: \$20.00

This introductory course is designed to provide working knowledge and skills required for graphic designers and illustrators using Adobe Illustrator on a PC. Advisory on Recommended Preparation: COMP 130 or equivalent college course with "C" or better

GD 160 Graphic Design 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$20.00

Using Adobe Illustrator, this course will introduce basic creative problem-solving methods and applications of graphic design theory, elements and principles. This is an invaluable course for students interested in graphic design. Students will develop a professional portfolio with extensive practice in computer image generation, basic techniques, speed, and precision. Approved for Distance Education format. Advisory on Recommended Preparation: ART 006 or equivalent college course with "C" or better and ART 008 or equivalent college course with "C" or better and GD 159 or equivalent college course with "C" or better.

GD 161 Graphic Design Applications 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$20.00

Equivalent Course: GD 161AD.

This course emphasizes the creative problem solving process as it relates to graphic design utilizing Adobe Photoshop. It includes knowledge in the conceptualization, refinement and implementation of graphic design. Practical applications will include a variety of print, packaging and promotional designs. Students will also learn how to properly prep files for press, web and other applications. Advisory on Recommended Preparation: ART 006 and 008 and GD 160 or equivalent college courses with "C" or better

GD 162 Integrated Graphics 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$20.00

Equivalent Course: GD 162AD.

Students enrolled in this course will employ skills developed in beginning and intermediate classes utilizing Adobe Creative Suite software: InDesign, Illustrator and Photoshop. Continued studies in typography, publication design, package design, logo creation and digital imaging will be taken to more advanced applications and projects. As the name of the course indicates, it includes integration of various graphic and digital images, logo designs and technical illustrations for the purpose of print media projects. Advisories on Recommended Enrollment: ART-006, ART 008, GD 159, GD 160, GD 161 and GD 163 or equivalent college courses with "C" or better

GD 163 Adobe InDesign 3
Hours: 2 Lecture/Discussion
3 Lab

Materials Fee: \$20.00

Equivalent Course: GD 163AD.

This introductory course is designed to provide students with information, tutorials, exercises, terminology and projects that will allow them to develop skills with Adobe InDesign software for the purpose of Graphic/Publication Design. Advisory on Recommended Preparation: ART 006 and ART 008 and COMP 130 or equivalent college courses with "C" or better

GD 164 Digital Animation 1 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$20.00

Equivalent Course: GD 164AD.

This is a graphic design course in beginning digital animation utilizing the Maya computer program. Course content includes an understanding of the tools and navigation necessary to create 3-D animations that can be applied to a wide variety of industry including multimedia, interactive,

gaming and web graphics, as well as production CG. Advisory on Recommended Preparation: GD 159 and GD 161AD/GD 161 or equivalent college courses with "C" or better

GD 165 Digital Animation 2 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$20.00

This is an intermediate graphic design course in digital animation using the Maya computer program that builds upon the basic skills learned in GD 164. Course content will provide students with intermediate and advanced level understanding of Maya tools and techniques necessary to create 3-D models, renderings, and animations that can be applied to a wide variety of industries including multimedia, interactive, gaming and web graphics, as well as production CG. Advisory on Recommended Preparation: GD 164 or equivalent college course with "C" or better

GD 251 Independent Study-GD 1 - 4
Hours: 3 TO 12 Lab

Equivalent Course: GD 251AD.

The purpose of this independent study is to provide an opportunity for students, under the direction of an instructor, to participate in advanced individualized studies to supplement and enhance existing courses. Independent Study requires a minimum of 54 hours of academic work per unit. Advisory on Recommended Preparation: GD 159 or equivalent college course with "C" or better. Limitation on Enrollment: Graphic Design Department approval required to enroll. In addition, students must file an Independent Study form through the Admissions and Records Office.

GD 290 Supervised Practice 1 - 3
Hours: 3 TO 9 Lab

Equivalent Course: GD 190AD.

Under the supervision of an instructor, selected students assist and direct students in less advanced classes. This course provides experience for students interested in teaching, counseling, and other employment volunteer situations where the student is expected to take a leadership role. Advisory on Recommended Preparation: GD 159 or equivalent college course with "C" or better

GD 400 Graphic Design Sup Lrng Assist 0
Hours: 27 TO 108 Lab

Graphic Design Open Lab is intended to strengthen students' graphic design skills and reinforce their mastery of concepts. This open entry/open exit class is linked with GD 159, GD 160, GD 161, GD 162, GD 163, and GD 164.

HEALTH

HLTH 405 Rehabilitation Aide 0
Hours: 4.4 Lab

This certification course will introduce and discuss the profession of physical and occupational therapy. It will begin with the origins of therapy, continue through the different roles required for therapy, then review the material that is required for the student to perform as a rehabilitation/physical therapy aide. Students will review a chapter electronically at their own pace, along with performing weekly quizzes, activities and group work to help learn the material. Two Saturday lab sessions will be scheduled to complete the skill competency checks at the College of the Sequoias.

HLTH 406 CPR for Health Care Providers 0
Hours: .5 Lab

Materials Fee: \$60.00

The course will lead to CPR certification by the American Heart Association which is required for employment in health care settings.

HEALTH AND WELLNESS

HW 001 Personal & Community Health 3
Hours: 3 Lecture/Discussion

A general course including the facts necessary for maintenance of physical and mental health. The subject matter covers holistic health, mental health, stress management, physical health and nutrition, infectious and noninfectious diseases, sexually transmitted diseases, lifestyles, and drugs in our society. This course is approved for distance education. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 001 as determined by COS Placement Procedures

HW 003 First Aid/CPR/AED 3
Hours: 3 Lecture/Discussion

This course covers the American Red Cross Comprehensive First Aid course, including cardiopulmonary resuscitation (CPR) for adults, children and infants; AED; safety factors in daily living; emergency treatment for various types of injuries and illnesses, and emergency childbirth. Students who successfully pass all American Red Cross requirements can receive an American Red Cross Responding to Emergency certificate (fee required for certificate). (C-ID KIN101)

HW 007 Sports Health 3
Hours: 3 Lecture/Discussion

This course covers different aspects of physical and mental health as it relates to the athlete. The effects of pain and stress on performance are studied. Diet, weight control, fitness and exercise, genetics, and their influence on training are examined. The consequences of using alcohol, tobacco and anabolic steroids and other drugs are explained in terms of their effects on human performance.

HW 060 Concepts in Health & Fitness 3
Hours: 3 Lecture/Discussion

Equivalent Course: SMED 060.

This course is open to all students interested in learning about the different components of physical fitness, cardiovascular endurance, muscular strength, muscular endurance, flexibility, and body composition as related to healthy living. Students will develop individual plans using decision-making strategies, analysis, and an awareness of the conditions related to nutrition, physiological factors and physical fitness. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 determined by COS Placement Procedures

HW 104 Drugs and Society 3
Hours: 3 Lecture/Discussion

This course covers the broad spectrum of drug use in society, including the physical and psychological effects. The material is constantly updated to reflect the current interests of students and new information made available by the scientific community. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures

HW 119 Nutrition for Fitness 3
 Hours: 3 Lecture/Discussion
Equivalent Course: NUTR 119.
 This course is designed to acquaint students with nutritional needs of athletes and the relationship between nutrition and fitness. Students are required to use the computer, Internet and basic math skills to calculate nutritional needs. Topics include human energy, nutrient groups, body composition, and supplement use.

HISTORY

HIST 004 Western Civilization to 1648 3
 Hours: 3 Lecture/Discussion
 Survey of the development of western culture and civilization to the Reformation. (C-ID HIST170)
Prerequisites: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures.

HIST 005 West Civilization Since 1648 3
 Hours: 3 Lecture/Discussion
 Survey of the development of western culture and civilization from absolutism to the present. This course covers events from approximately 1648 CE to contemporary times. Students will define the characteristics of modern Western civilization and trace how its institutions, ideas and developments from the middle of the seventeenth century to the recent past have shaped the current Western and wider world. (C-ID HIST180)
Prerequisites: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures.

HIST 017 People of the US to 1877 3
 Hours: 3 Lecture/Discussion
Equivalent Course: HIST 017H.
 Historical survey of the European colonization of North America and of the United States through Reconstruction, emphasizing the interaction of political, economic, geographic and social factors in the evolution of American culture. Special emphasis is given to the roles of various ethnic minority groups, as well as the role of women, in settling and shaping American history. (C-ID HIST130)
Prerequisites: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures.

HIST 018 People of the US from 1865 3
 Hours: 3 Lecture/Discussion
 A study of the people of the United States from 1865 to the present time, emphasizing the interaction of political, economic and social factors in the evolution of American culture. (C-ID HIST140)
Prerequisites: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures.

HIST 023 Mexican American 3
 Hours: 3 Lecture/Discussion
 A study of the culture and heritage of the Mexican American people from the Native American period to the present time with an emphasis on the social, political, and economic factors shaping their destiny in American society.
Prerequisites: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures.

HIST 025 World History to 1500 3
 Hours: 3 Lecture/Discussion
Equivalent Course: HIST 125.
 A survey of the economic, political and social developments in world history from the emergence of human communities to the Modern Period (1500.) (C-ID HIST150)

Prerequisites: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures.

HUMAN DEVELOPMENT

HDEV 121 Student Success 2
 Hours: 2 Lecture/Discussion
Equivalent Course: HDEV 120, HDEV 120AB.

This course will provide the student with an opportunity to learn and adopt techniques, tools, and methods that will enhance his/her success in college. In addition, this course will highlight key strategies for improving a student's understanding of personal responsibility and self-management.

HUMAN SERVICES

HSRV 101 Group Design and Leadership 4
 Hours: 4 Lecture/Discussion

This class focuses on research-based design, leadership and evaluation for a variety of support, treatment and therapeutic groups. Advisory on Recommended Preparation: ENGL-251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures

Prerequisites: HSRV 121 or equivalent college course with "C" or better.

HSRV 102 Drug and Alcohol Treatment 3
 Hours: 3 Lecture/Discussion

This course is designed to develop the basic skills and knowledge needed to work in the field of alcohol and other drug treatment programs. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 determined by COS Placement Procedures

HSRV 103 Gerontology 3
 Hours: 3 Lecture/Discussion

Introduction to the study of aging including psychological, sociological, cultural and ethical issues. This course also focuses on strength-based assessment, prevention and interventions to assist clients and family members understand and cope with the aging process. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 001 as determined by COS Placement Procedures

HSRV 104 Issues in Family Violence 3
 Hours: 3 Lecture/Discussion

This is an introduction class to family violence that examines the causes, interventions, and prevention of various types of family violence. This includes child abuse, domestic violence, elder abuse, and dependent adult abuse. The course also covers the application of the bio-psychosocial model to understanding and interventions with the family system. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 001 as determined by COS Placement Procedures

HSRV 105 Case Management 3
 Hours: 3 Lecture/Discussion

Training students to be part of a multidisciplinary team of professionals/paraprofessionals assisting vulnerable clients navigate and understand the complex human service systems. The course will focus on various populations such as the elderly, individuals with mental health or drug and alcohol issues, the homeless, individuals with co-occurring disorders, individuals/families in the child welfare system, and individuals with intellectual developmental disorders.

Prerequisites: HSRV 121 or equivalent college course with “C” or better.

HSRV 110 Ethics in Behavioral Science 3
 Hours: 3 Lecture/Discussion
 Focus on legal and ethical issues that arise in the provision of services to community from a variety of the helping professions. Understanding and applying ethical principles in the area of service provision.

HSRV 120 Intro to Social Welfare 3
 Hours: 3 Lecture/Discussion
 This course is a survey of the social, economic, political, historical and philosophical development of social welfare systems in the United States. The course reviews and evaluates major assistance programs in the United States and California, as well as the political ideologies that impact policy development. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with “C” or better

HSRV 121 Interviewing 4
 Hours: 4 Lecture/Discussion
 Methods and techniques of interviewing for social workers. Students will learn how to obtain appropriate client and social information by being sensitive and objective with respect to needs. Students will identify and describe problems in interviewing children, the disabled and the aged.
 Advisory on Recommended Preparation: ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 1 determined by COS Placement Procedures

HSRV 122 Intro of Human Services 3
 Hours: 3 Lecture/Discussion
 This course is a review of the various social issues that impact the welfare of individuals and society as a whole, as well as the social work strategies to provide remedial services. The course covers basic theories and practical interventions pertaining to the society, the family and the individual, as they are used in the field of social work. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with a grade of “C” or better, or eligibility for ENGL 1 as determined by COS Placement Procedures.

INDUSTRY AND TECHNOLOGY

ITEC 100 Indust Maintenance, Opt. A 15
 Hours: 10 Lecture/Discussion
 15 Lab
Materials Fee: \$7.00
 ITEC 100 is the first semester of a two semester program in Industrial Maintenance Technology. This course will provide the students with theories, concepts and skills utilized in the areas of basic electricity, machine tool operation, acetylene and MIG welding, hydraulics/pneumatics and mechanics.

ITEC 101 Indust Maint Tech Option A 15
 Hours: 10 Lecture/Discussion
 15 Lab
Materials Fee: \$7.00
 This course will provide the students with theories, concepts, and skills utilized in the areas of: industrial motor control and instrumentation, stick and TIG welding, refrigeration and programmable logic controllers. It is the second course of a two semester program required to earn a certificate in Industrial Maintenance Technology.
Prerequisites: ITEC 100 or equivalent college course with “C” or better.

ITEC 106 Industrial Maintenance 1 4
 Hours: 3 Lecture/Discussion
 3 Lab
Materials Fee: \$8.00
 This employment-oriented class will provide the students with knowledge and skills in the areas of basic electricity, industrial mechanics, and mig welding.

ITEC 107 Industrial Maintenance 2 4
 Hours: 3 Lecture/Discussion
 3 Lab
Materials Fee: \$8.00
 This employment-oriented class will provide the students with knowledge and skills in the areas of basic electricity, machining, and hydraulics/pneumatics.

ITEC 108 Industrial Maintenance 3 4
 Hours: 3 Lecture/Discussion
 3 Lab
Materials Fee: \$8.00
 This employment-oriented class will provide the students with knowledge and skills in the areas of industrial motor controls, stick, and tig welding.

ITEC 109 Industrial Maintenance 4 4
 Hours: 3 Lecture/Discussion
 3 Lab
Materials Fee: \$8.00
 This employment-oriented class will provide the students with knowledge and skills in the areas of programmable logic controllers, variable frequency drives, and basic industrial refrigeration and boilers.

ITEC 110 Electricity and Electronics 3
 Hours: 2 Lecture/Discussion
 3 Lab
Materials Fee: \$10.00
 This course is an entry-level course in the Industrial Maintenance Program. Topics will include alternating and direct currents, including circuit basics, construction, and testing of industrial electrical circuits and applications for relays, transformers, and relay ladder logic. Fundamentals of industrial electronics and solid state devices will be studied, in addition to magnetism, dc and ac motors, and their applications. Other topics will be digital electronics, standards and codes.

ITEC 111 Manufacturing Processes 3
 Hours: 2 Lecture/Discussion
 3 Lab
 This course is an entry level course in the Industrial Maintenance Program. Topics to be studied will be industrial machining to include the lathe and milling machines. Other topics will be GMAW, STAW, and GTAW welding (mig, stick, and tig). Industrial safety and preventative maintenance are studied.

ITEC 112 Welding Principles 1 4
 Hours: 3 Lecture/Discussion
 4 Lab
Materials Fee: \$10.00
 Topics will be GMAW, STAW, and GTAW welding (mig, stick, and tig). Industrial safety and preventative maintenance are studied. Practical applications will be in creating projects in steel and stainless steel using all three modes of welding. Students will become competent in all three modes.

ITEC 120 Programmable Logic Controllers 3
Hours: 2 Lecture/Discussion
3 Lab

This is a course in industrial computers and Programmable Logic Controllers. The student will be able to use a personal computer to identify parts of a PLC, program and troubleshoot the PLC upon completion of this course.

Prerequisites: ITEC 110 or equivalent college course with "C" or better.

ITEC 213 Industrial Mechanics 5
Hours: 4 Lecture/Discussion
4 Lab

This course is designed to instruct the student in the design, repair, and specification of the industrial mechanical equipment. Topics to be studied will be mechanical power transmission equipment, gear reducers, chains and belts, pumps, compressors, and motors. The student will learn to repair equipment according to new equipment manufacturers standards.

ITEC 220 Water Treatment Fundamentals 3
Hours: 3 Lecture/Discussion

The course provides an introduction to the basic methods used to treat water supplies for domestic drinking water purposes. The course introduces and works with the supporting water treatment principles, operations and maintenance considerations and water-related mathematics. The course fulfills the specialized education/training requirement that is necessary for water treatment plant or distribution system operator certification by State Water Resources Control Board. The course prepares students for the Grade T1 and T2 water treatment plant operator certification exams.

ITEC 221 Wastewater Treatment Fundam 3
Hours: 3 Lecture/Discussion

The course provides an introduction to the basic methods used to treat domestic and industrial wastewater prior to disposal and/or reuse. The course introduces and works with the supporting science and mathematical concepts. The course fulfills the educational point requirement that is necessary prior to State Water Resources Control Board operator certification. The course prepares students for the Grade 1 and 2 operator certification exams.

ITEC 222 Automated Controls 5
Hours: 4 Lecture/Discussion
4 Lab

This course offers theory and application of solid state devices used to control industrial machinery. The devices include power supplies, smart relays, variable frequency drive motor controllers, DC motor controllers, sensors, and discrete and analog input and output modules. Programming of the common proprietary languages will be covered as well as troubleshooting and repair of the devices.

Prerequisites: ITEC 112 or equivalent college course with "C" or better.

ITEC 223 Welding Principles 2 4
Hours: 3 Lecture/Discussion
4 Lab

Materials Fee: \$10.00

This course offers instruction in the practice and theory of SMAW (stick) welding. This course also offers practice and theory in gas and plasma arc cutting. The student will be able to make welds in mild steel and stainless steel.

Prerequisites: ITEC 213 or equivalent college course with "C" or better.

ITEC 224 Hydraulics and Pneumatics 3
Hours: 2 Lecture/Discussion
3 Lab

This course offers instruction in fluid power as used in an industrial environment. The course covers theory of fluid power, system design, troubleshooting, and repair of both hydraulic and pneumatic systems. A hands-on lab provides job-ready experience and skills for students.

Prerequisites: ITEC 111 or equivalent college course with "C" or better.

ITEC 274 Programmable Logic Controllers 2
Hours: 2 Lecture/Discussion
1 Lab

Materials Fee: \$5.00

This course addresses the necessary theory and skills in the field of programmable controllers for maintenance electricians. The student will learn the coding, numbering, wiring methods and programming of programmable logic controllers. The student will learn how to design ladder diagrams from a hard wired diagram or from a sequence of operation.

INFO/COMMUNICATION TECHNOLOGY

ICT 201 A Plus Certification Prep 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$39.00

This course prepares the student for CompTIA A+ certification, which includes the latest foundation-level knowledge and skills needed by today's computer support professionals. It is the starting point for a career in the Information Technology industry. This international, vendor-neutral certification is accredited by the International Organization for Standards (ISO) and the American National Standards Institute (ANSI). CompTIA A+ certification proves competence in a technician's ability to perform essential IT tasks such as installation, configuration, diagnosing, preventative maintenance, basic networking and security. It also confirms a technician's understanding of customer service and communication skills needed to work with clients.

ICT 202 Computer Multimedia Support 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$39.00

Equivalent Course: IT 212.

Topics for this course include installation, server support, virtual environments, team-building, project requirements, timelines, production and direction challenges, as well as the technical aspects of tools, software, and vendors' products. Those already trained in design and multimedia can choose to focus more on the technical and support aspects or artistic design within their training. The Adobe certification pathways include: Adobe Certified Associate (ACA), Adobe Certified Expert (ACE), Adobe Certified Expert - Specialist (ACE Specialist), Adobe Certified Expert - Master (ACE Master), and Adobe Certified Instructor (ACI).

ICT 210 Server/Network Infrastructure 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$39.00

Equivalent Course: IT 223.

This course provides the student with networking, security, and system administration information needed to implement a Windows Server infrastructure. It covers the basics of installation and configuration, storage, network infrastructure, network components, network protocols, server roles, Active Directory Domain Services (AD DS), Group Policy, IT security, server security, network security, security software, monitoring

server performance, and maintaining a Windows Server. This course includes the foundational level knowledge to prepare students to start a career or cross train in Microsoft Windows Server technologies.

ICT 211 Server & Network Management 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$39.00

Equivalent Course: IT 122AC.

This course is designed to help make network and server infrastructure easier to manage, more resilient, more efficient, and more secure. The curriculum will discuss consolidation of server environments, a move to a hosted/cloud-based model, challenges of information and communication technology storage, virtualization workloads, virtual machine density, mobility, and availability, virtualization of applications, and network and server performance.

ICT 221 CISCO Academy 1 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$36.00

Equivalent Course: IT 130AC, IT 230.

This is the first of four classes in the Information and Communication Technology CISCO Academy Certificate Program. Instruction includes: safety, networking, protocols, standards, LANs, WANs, OSI models, cabling, cabling tools, routers, Ethernet, IP addressing, and network standards.

ICT 222 CISCO Academy 2 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$36.00

Equivalent Course: IT 131AC, IT 231.

This is the second of four courses in the Information Technology CISCO Academy Certificate program. Instruction includes, but is not limited to: interfacing routers, networking terminology and protocols, network testing, programming and configuring routers, IP addressing and subnetting, and internetworking router protocols.

Prerequisites: ICT 221 or equivalent college course with "C" or better.

ICT 223 CISCO Academy 3 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$36.00

Equivalent Course: IT 132AC, IT 232.

This is the third course in the Information Technology CISCO Academy Certificate program. Instruction includes switching technologies; routing terminology and protocols; interface standards; programming and configuration of routers; VLANs; IP addressing and network standards.

Prerequisites: ICT 222 or equivalent college course with "C" or better.

ICT 224 CISCO Academy 4 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$36.00

Equivalent Course: IT 133AC, IT 233.

This is the fourth course in the Information Technology CISCO Academy Certificate Program. Instruction includes the following: LAN switching; WAN encapsulation methods; ISDN routing; programming and configuration of routers; network security; and UNIX intercompatibility.

Prerequisites: ICT 223 or equivalent college course with "C" or better.

INFORMATION TECHNOLOGY

IT 212 Computer Multimedia Concepts 4
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$15.00

Equivalent Course: IT 112AC.

This course covers the basics of computer multimedia applications including: sound; animation; text; digital photography; scanners; printing; graphics; web design; and video and includes instruction in many popular multimedia programs.

INTERCOLLEGIATE ATHLETICS

IA 001AD Intercol Men's Baseball 3
Hours: 10 Lab

Intercollegiate Varsity Baseball is designed for the student who excels in athletic ability and wishes to compete at a high level of baseball against other California community colleges.

IA 002AD Intercol Men's Basketball 1.5
Hours: 5 Lab

Intercollegiate Men's Basketball is an advanced skill course for male students who want to participate in an intercollegiate basketball program. Prior experience in competitive basketball is recommended to meet the rigors of Community College competition.

IA 003AD Intercol Women's Basketball 1.5
Hours: 5 Lab

Intercollegiate Women's Basketball is an advanced skills course for female students who want to participate in an intercollegiate basketball program. Prior competitive basketball experience is recommended to meet the rigors of playing at the Community College level. This course is offered each semester and may be repeated 3 times.

IA 006AD Intercol Football 3
Hours: 10 Lab

This course is designed for the student/athlete who wishes to compete in intercollegiate football at the community college level.

IA 008AD Intercollegiate Women Softball 3
Hours: 10 Lab

This course is designed for student/athletes interested in competing in an intercollegiate softball program. The course involves daily practices and a 40 game regular season, with the possibility of up to three weekends of post season competition for qualifying teams.

IA 012AD Intercol Women's Tennis 3
Hours: 10 Lab

This course is designed for the female student who wishes to play competitive tennis on an intercollegiate tennis team competing against teammates and other community college students. This course can be repeated three times.

IA 016AD Intercol Women's Volleyball 3
Hours: 10 Lab

This course is designed for the student/athlete who wants to compete in Intercollegiate Volleyball at the college level. Prior competitive volleyball experience is recommended to meet the rigors of community college competition. This course may be repeated 3 times.

IA 023AD Intercol Track and Field 3
Hours: 10 Lab
This class is designed for the athlete who is interested in competing in intercollegiate track and field. The course involves daily practices as well as participation in track and field meets. Each meet consists of 12 running events and eight field events; therefore all workouts are geared towards these individual events, as well as general physical fitness. Intercollegiate track and field not only allows the student to better herself/ himself as an individual athlete, but contributes to a team effort as well. This class may be repeated 3 times.

IA 024AD Intercol Cross Country 3
Hours: 10 Lab
This class is designed for the student/athlete who is interested in competing in Intercollegiate Cross Country. The course involves daily practices as well as participation in cross country meets. Each meet consists of a 4 mile race for men; 5K race for women. All workouts are geared towards running this distance. Intercollegiate Cross Country not only allows the student/athlete to better herself/himself as an individual athlete, but also contributes to a team effort. This class may be repeated 3 times.

IA 029AD Intercollegiate Swim/Diving 3
Hours: 10 Lab
Intercollegiate Swimming/Diving is designed for the student/athlete who is interested in competing in swimming or diving at the community college level. The course consists of daily practices and competition in scheduled meets. This class may be repeated 3 times.

IA 030AD Intercol Women's Soccer 3
Hours: 10 Lab
Intercollegiate Women's Soccer is designed for women student/athletes interested in competing in intercollegiate soccer. The course involves daily practice, as well as competition at the collegiate level, through league games and tournament play. This class may be repeated 3 times.

IA 031AD intercol Women's Equestrian 1.5
Hours: 5 Lab
Equivalent Course: IA 131AD.
This is a course for female students who want to participate in an Intercollegiate Equestrian program. Advanced techniques in equestrian, both western and English skills of riding used in intercollegiate competition, will be stressed. Out-of-area travel is required. This class may be repeated three times. Class is offered both Fall and Spring semesters.

IA 032AD Intercollegiate Men's Soccer 3
Hours: 10 Lab
Equivalent Course: IA 113AD.
Intercollegiate Men's Soccer is designed for male student/athletes interested in competing in intercollegiate soccer. The course involves daily practices as well as competition at the collegiate level through league games and tournament play. This course may be repeated 3 times.

IA 047AD Strategies of Sport 1
Hours: .5 Lecture/Discussion
1.5 Activity
Equivalent Course: PE 047AD, PE 147AD.
This class is designed for the student who wants to learn the necessary skills required to play various sports such as softball, baseball, basketball, swimming, diving, and football. Elementary skills of throwing, fielding, batting, pitching, blocking, dribbling, passing, freestyle, backstroke, and diving will be taught and practiced.

IA 049AD Performance of Sport 1
Hours: .5 Lecture/Discussion
1.5 Activity
Equivalent Course: PE 049AD, PE 149AD.
This course is designed to provide student/athletes interested in competing the opportunity to acquire optimal fitness and conditioning for skill development, injury prevention and general physical-developmental improvement.

IA 051AD Power Lifting for Athletes 2
Hours: 1 Lecture/Discussion
3 Activity
This course is designed for training using Olympic lifting, power lifting, core development and conditioning. Students will develop individualized programs emphasizing the development of muscular strength, agility, power and explosiveness specific to their sport of competition.

INTERDISCIPLINARY STUDIES

IS 180 Freshman Science Seminar 1
Hours: 1 Lecture/Discussion
An orientation to the strategies needed to successfully complete a major in mathematics, science or engineering. This course assists students in acquiring the knowledge and skills necessary to reach their educational objectives in highly technical fields. Topics include: career planning, educational and personal enrichment, study skills and habits, time management, academic preparation, and self-discipline. This course serves as the orientation requirement for MESA, but is open to all students. Approved for Distance Education format.

IS 210 Leadership Development 2
Hours: 2 Lecture/Discussion
Theory and practice of leadership. Prepares students for productive involvement in community service, college activities, and civic governance. Designed especially, but not exclusively, for students participating in student government and club activities.

IS 211 Student Governance 2
Hours: 2 Lecture/Discussion
This course is designed to familiarize students with the Student Senate Constitution and governance process within the community college system. Students will learn methods and techniques to conduct effective meetings and skills to serve as student representatives within the participatory governance structure. Students will develop an understanding of the community college culture, learn methods to lead with integrity and moral purpose, develop critical thinking skills, and strategies for active citizenship.

IS 212 Peer Mentoring and Leadership 2
Hours: 2 Lecture/Discussion
This course is designed to give students leadership, peer mentoring, and peer advising skills. Helping skills such as methods of problem-solving essential for the college student, communication, time management, knowledge of resources are emphasized, as well as leadership training. This course will prepare students to act as peer-mentors for the college student population.

IS 213 Student Senate Development 2
Hours: 2 Lecture/Discussion
A class devoted to the practical application of the governmental process through participation in student government.

IS 220 Orientation/College Success .5
 Hours: .5 Lecture/Discussion
 This is a course for all new students designed to orient students to the college environment and educational opportunities. The class includes placement testing interpretation; introduction to academic procedures, policies, goal setting, educational planning, college services, college facilities and exploration of various opportunities for higher education. Students will develop an educational plan to achieve the goals identified in the class.
 Orientation Exemption:
 * You have previously participated in COS Orientation
 * You are transferring to COS from another college
 * You are enrolling in six units or fewer and have no plan to obtain a degree, certificate or participate in a transfer program.

IS 308 Instructional Support 1
 Hours: 3 Lab
 This course provides instruction in applied study skills. Students will learn techniques to assist them with their current course of study or to prepare them for the ensuing semester.

JOURNALISM

JOUR 001 Writing for New Media 3.5
 Hours: 3 Lecture/Discussion
 2 Lab

An introduction to gathering, synthesizing/organizing and writing news in journalistic style across multiple platforms. Includes role of the journalist and related legal and ethical issues. Students will report and write based on their original interviews and research to produce news content. Experiences may include covering speeches, meetings and other events, writing under deadline and use of AP Style. While student work may be eligible for use in student and/or professional publications, this is not a publications class. (C-ID JOUR110)
Prerequisites: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 001 as determined by COS placement procedures.

JOUR 007 Mass Communication 3
 Hours: 3 Lecture/Discussion
 A media survey course covering newspapers, radio, television, magazines, books, films, the web, public relations/advertising industries, and the recording industry. Students will study strengths and weaknesses of each, as well as the major challenges to a democratic society including censorship, sensationalism, pornography, propaganda, and monopoly. (C-ID JOUR100)

JOUR 011 Intro to Digital Photography 3
 Hours: 2 Lecture/Discussion
 3 Lab

Equivalent Course: JOUR 011AB, JOUR 111AD, PHOT 011AB, PHOT 111AD.

This course is designed for students who want knowledge of digital camera practices ranging from basic to advanced levels, basic Photoshop and computer skills. The course will give students practical publication experience and an opportunity to publish their photographs in The Campus student newspaper in print and online.

JOUR 020 Cultural Issues in Film/TV/Web 3
 Hours: 3 Lecture/Discussion
 An in-depth study of social and cultural issues such as ethnicity, gender and politics through the prism of film, television and the Internet.

JOUR 114 Editorial Board: Beginning 2
 Hours: 1 Lecture/Discussion
 3 Lab

Equivalent Course: JOUR 104AD.

This course is for student editors and other students interested in participating in The Campus student newspaper. Course content includes basic leadership skills, how to work under deadline, newsroom management, beginning opinion writing and editing, general editorial development and beginning multimedia. Two lab hours required each week by arrangement. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better

JOUR 115 Editorial Board: Intermediate 2
 Hours: 1 Lecture/Discussion
 3 Lab

Journalism 115 is a course for student editors and other students interested in participating in The Campus student newspaper. Course content includes leadership skills, including peer mentoring, newsroom management, opinion writing, editing, new and emerging media including visual journalism and open journalism, social media, multimedia, and marketing a news operation. Two required lab hours to be arranged per week. Advisory on Recommended Preparation: ENGL-251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures

Prerequisites: JOUR 114 or JOUR 104AD or equivalent college course with "C" or better.

JOUR 116 Editorial Board: Leadership 1 2
 Hours: 1 Lecture/Discussion
 3 Lab

Journalism 116 is a course for student editors and other students interested in serving as leaders of The Campus student newspaper. Course content includes intermediate leadership skills, including peer mentoring, managing a staff, organizing a news operation, and being in charge of a section of the paper.

Prerequisites: JOUR 115 or equivalent college course with "C" or better.

JOUR 117 Editorial Board: Leadership 2 2
 Hours: 1 Lecture/Discussion
 3 Lab

Journalism 117 is a course for experienced student editors of The Campus. Course content includes advanced leadership skills, managing a newsroom, dealing with personnel issues, and complaints against the paper, edit flow, story assignments and financial aspects of the paper.

Prerequisites: JOUR 116 or equivalent college course with "C" or better.

JOUR 130 Media Practicum I 4
 Hours: 2 Lecture/Discussion
 6 Lab

Equivalent Course: JOUR 103AD.

This course provides entry level practical experience in all aspects of producing a newspaper through work on The Campus. Course content includes writing, editing, multimedia, and general editorial development. This class meets an additional six hours per week by arrangement with the instructor. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID JOUR130)

JOUR 131 Media Practicum II 4
 Hours: 2 Lecture/Discussion
 6 Lab

This course requires higher skill level and/or leadership/management involvement than JOUR 130. Intermediate student media practicum

regularly produces The Campus, a First Amendment student newspaper, both print and online, which is distributed to the college audience and the community. Course content includes weekly news assignments across multiple platforms, including print, broadcast, and online. This class includes practical experience in design/layout, visual, online, multimedia journalism, emerging technologies and leadership/management. The Campus is student produced with student leadership. This class meets an additional six hours per week by arrangement with the instructor. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID JOUR131)

Prerequisites: JOUR 130 or JOUR 103AD or equivalent college course with "C" or better.

KINESIOLOGY

KINE 001 Introduction to Kinesiology 3
Hours: 3 Lecture/Discussion

Equivalent Course: KINE 100.

This course introduces students to an interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed, along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions. This course includes history, philosophy, concepts, programs, as well as addressing the future of the discipline. Advisory on Recommended Preparation: ENGL 251 or ENGL 261 or equivalent college course with "C" or better or eligibility for ENGL 001 as determined by COS Placement Procedures. (C-ID KIN100)

KINE 082 Intro to Theory of Coaching 2
Hours: 2 Lecture/Discussion

Equivalent Course: PE 037.

Designed for the student wishing to gain knowledge of coaching individual and team sports. Common problems and solutions will also be covered. Advisory on Recommended Preparation: ENGL 251 or an equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures

KINE 084 Theory of Football 2
Hours: 2 Lecture/Discussion

Equivalent Course: PE 017.

This course is designed for the student with an interest in coaching football. Philosophy fundamentals, strategies and rules will be emphasized.

KINE 088 Found. of Sport/Exerc. Psych. 3
Hours: 3 Lecture/Discussion

Equivalent Course: KINE 188.

The study and application of psychological principles and foundations to sport and exercise across the lifespan and across activity contexts.

LEARNING SKILLS

LS 308 Instructional Support 1 - 2
Hours: 3 TO 6 Lab

Equivalent Course: LS 308AD.

Students will receive assistance with their academic courses and/or improve academic skills which may be affected by a disability.

LIBRARY

LIBR 101 College Research Strategies 1
Hours: 1 Lecture/Discussion

The course teaches the tools needed for college level research through the use of electronic databases, print resources and the web. Advisories on Recommended Preparation: COMP 220 or COMP 228 or equivalent college course with "C" or better

LIBR 102 Internet Information Resources 1
Hours: 1 Lecture/Discussion

Internet Information Resources is an information competency course teaching students to efficiently retrieve and evaluate websites for academic and personal use.

LIBR 103 Evaluating Information Sources 1
Hours: 1 Lecture/Discussion

Evaluating Information Sources is an information competency course helping students to use criteria to analyze and evaluate printed and online information sources for academic and personal use.

LIBR 423 Tutor Training 0
Hours: 1 TO 19 Lab

Students who have demonstrated mastery of content in one or more college courses are eligible to serve as tutors. This course is designed to develop basic skills needed to function successfully as a tutor.

LIBR 425 Supervised Tutoring 0
Hours: 2 Lab

Equivalent Course: LIBR 424, LIBR 424AB.

This course is designed to provide students with tutorial assistance. Tutees may work either individually or in small groups. They may work with computer programs developed specifically to meet their needs or they may work with tutors who have been recommended by faculty. The student must be enrolled in the class for which he/she is being tutored.

LINGUISTICS

LING 111 Introduction to Language 3
Hours: 3 Lecture/Discussion

An introduction to the nature, structure, and acquisition of human language; the nature of linguistic diversity; the relationship between linguistic structure, language use and development. Language data considered will be drawn from languages common to California's Central Valley. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with a grade of "C" or better, or eligibility for ENGL 1 as determined by COS Placement Procedures

MANUFACTURING

MANU 210 Introduction to Machine Shop 4
Hours: 2 Lecture/Discussion
6 Lab

Materials Fee: \$5.00

This course explores the basic concepts of machine tools, with a particular examination of cutting tool geometric and variation. New technologies in manufacturing are considered, as well as discussion of National Institute for Metalworking Skills (NIMS) standards.

MANU 211 Machine Shop 1 4
Hours: 2 Lecture/Discussion
6 Lab

Materials Fee: \$50.00

This course explores machine shop practices with emphasis on Occupational Safety Health Administration (OSHA), shop mathematics, measurements, and the correct use of basic machine tools, mills, lathes, saws, and drill presses, as well as an introduction to National Institute for Metalworking Skills (NIMS) standards. Advisory on Recommended Preparation: MANU 210 or equivalent college course with "C" or better (MANU 210 may be taken concurrently) or equivalent knowledge and/or skills as determined by departmental assessment

MANU 212	Machine Shop 2	4
Hours:	2 Lecture/Discussion 6 Lab	
Materials Fee:	\$50.00	
This course explores intermediate machine shop practices with emphasis on Occupational Safety Health Administration (OSHA), applied mathematics, advanced processes on mills, lathes, and tool grinding, and National Institute for Metalworking Skills (NIMS) standards.		
Prerequisites: MANU 211 or equivalent college course with "C" or better.		
MANU 213	Machine Shop 3	4
Hours:	2 Lecture/Discussion 6 Lab	
Materials Fee:	\$50.00	
This course explores jig and fixtures applications for conventional and computerized numerical machining processes. Skills and standards apply to the National Institute for Metalworking Skills (NIMS) standards.		
Prerequisites: MANU 212 or equivalent college course with "C" or better.		
MANU 214	Machine Shop 4	4
Hours:	2 Lecture/Discussion 6 Lab	
Materials Fee:	\$50.00	
This course explores the design of advanced tools, dies, blanking processes, metal die cutting and forming processes, and power presses for stamping and forming metal parts. Duties and standards apply to the National Institute for Metalworking Skills (NIMS) standards.		
Prerequisites: MANU 213 or equivalent college course with "C" or better.		
MANU 215	E&I Industrial Maintenance 1	4
Hours:	2 Lecture/Discussion 6 Lab	
Materials Fee:	\$50.00	
An introductory Industrial Maintenance Electrical & Instrumentation Technician course that covers Level I and II modules of the National Center for Construction Education and Research (NCCER).		
MANU 217	Manufacturing Production 1	2
Hours:	1 Lecture/Discussion 3 Lab	
An introductory Certified Production Technician (CPTae) course that covers Assessment Level I & II of the Manufacturing Skill Standards Council (MSSC).		

MATHEMATICS

MATH 010	Structure and Concepts 1	4
Hours:	4 Lecture/Discussion	
Equivalent Course: MATH 110.		
This is a four-unit course focusing on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including real number systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. This course is intended for liberal studies students, though it can be used to meet general education requirements. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in Math 010 may access the supplemental learning assistance by enrolling in Math 400, an open entry/open exit non-credit course. (C-ID MATH120)		
Prerequisites: MATH 230 or equivalent college course with "C" or better or eligibility as determined by COS placement procedures.		

MATH 011	Structure and Concepts 2	4
Hours:	4 Lecture/Discussion	

Equivalent Course: MATH 111.

This course continues topics from MATH 10 and includes statistics, probability, geometry, measurement, transformations, congruence, and coordinate geometry. The emphasis of this course is in mathematical topics relevant to future elementary school teachers. This course is intended for liberal studies students, though it can be used to meet general education requirements. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 011 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course.

Prerequisites: MATH 010 or equivalent college course with "C" or better.

MATH 021	Introduction to Statistics	4
Hours:	4 Lecture/Discussion	

This is an introductory course in probability and statistics covering both descriptive and inferential statistics. Statistical software will be used throughout this course. Topics include measures of center and spread, probability, probability distributions, confidence intervals, hypothesis testing, regression, and correlation analysis. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 21 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/ open exit non-credit course. (C-ID: MATH110)

Prerequisites: MATH 230 or equivalent college course with "C" or better or eligibility as determined by COS placement procedures.

MATH 065	Calculus 1	4
Hours:	4 Lecture/Discussion	

Equivalent Course: MATH 075.

This course is the first course of a three semester calculus sequence. Topics include limits, continuity, techniques and applications of differentiation and integration of algebraic and transcendental functions, and the Fundamental Theorem of Calculus. The course is intended primarily for mathematics, physical science, and engineering majors. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 65 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course. (MATH 65 + 66 + 67 course sequence is equivalent to the former MATH 75 + 76 + 77 course sequence). (C-ID MATH210)

Prerequisites: MATH 070 or equivalent college course with "C" or better or eligibility as determined by COS placement procedures.

MATH 066	Calculus 2	4
Hours:	4 Lecture/Discussion	

Equivalent Course: MATH 076.

This is the second course of a three-semester calculus sequence. Topics include techniques of integration, improper integrals, applications of integration, infinite sequences and series, analytic geometry, polar and parametric equations, and many applications. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 66 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course. (MATH 65 + 66 + 67 course sequence is equivalent to the former MATH 75 + 76 + 77 course sequence). (C-ID MATH220)

Prerequisites: MATH 065 or equivalent college course with "C" or better or eligibility as determined by COS placement procedures.

MATH 067	Calculus 3	4	MATH 154	Trigonometry	4
Hours:	4 Lecture/Discussion		Hours:	4 Lecture/Discussion	
Equivalent Course: MATH 077.			The study of trigonometric functions, their inverses and their graphs, identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using the Law of Cosines and the Law of Sines, polar coordinates, and introduction to vectors. Students enrolled in MATH 154 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course.		
This course is the third semester of the introductory calculus sequence. Topics covered include differentiation and integration of vector-valued functions, partial differentiation, directional derivatives, Lagrange Multipliers, multiple integration, centroids and centers of gravity, and Green's, Stoke's, and Divergence Theorem. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 067 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course. (MATH 65 + 66 + 67 course sequence is equivalent to the former MATH 75 + 76 + 77 course sequence). (C-ID MATH230)			Prerequisites: MATH 230 or equivalent college course with "C" or better or eligibility as determined by COS placement procedures.		
MATH 070	Precalculus	5	MATH 200	Elementary Algebra	4
Hours:	5 Lecture/Discussion		Hours:	4 Lecture/Discussion	
This course is intended for students planning to take calculus and proceeds at an intense pace. Topics include: functions and graphs, applications of functions, exponential and logarithmic functions, trigonometric functions and analytic trigonometry, right triangle trigonometry, analytic geometry, and roots of polynomial equations. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 070 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course. (C-ID: MATH155)			Equivalent Course: MATH 205.		
Prerequisites: MATH 154 or equivalent college course with "C" or better or eligibility as determined by COS placement procedures.			This intensive one-semester course in elementary algebra covers operations with real numbers, linear equations and inequalities, graphing, systems of equations, word problems, exponents, factoring, and rational expressions. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 200 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course.		
MATH 080	Linear Algebra	4	MATH 230	Intermediate Algebra	4
Hours:	4 Lecture/Discussion		Hours:	4 Lecture/Discussion	
This course develops the techniques and theory needed to solve and classify systems of linear equations. Solution techniques include row operations, Gaussian elimination, and matrix algebra. The course investigates the properties of vectors in two and three dimensions, leading to the notion of an abstract vector space. Vector space and matrix theory are presented including topics such as inner products, norms, orthogonality, eigenvalues, eigenspaces, and linear transformations. Selected applications of linear algebra are included. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 80 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course. (C-ID MATH250)			Equivalent Course: MATH 235.		
Prerequisites: MATH 066 or equivalent college course with "C" or better or eligibility as determined by COS placement procedures.			This is a four-hour-a-week intensive one-semester course in intermediate algebra covering: radical expressions and equations, quadratic equations, functions, logarithmic and exponential functions, and conic sections. This course satisfies the math requirement for an Associate's degree. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 230 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course. Approved for Distance Learning format.		
MATH 081	Differential Equations	5	MATH 360	Pre-Algebra	4
Hours:	5 Lecture/Discussion		Hours:	4 Lecture/Discussion	
An introduction of solving ordinary and partial differential equations including matrix solutions of linear systems, Laplace transforms, series solutions, separation of variables in partial differential equations, boundary value problems, and Fourier series. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 081 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course. Advisory on Recommended Preparation: MATH 080 or equivalent college course with "C" or better (C-ID MATH240)			Equivalent Course: MATH 365.		
Prerequisites: MATH 067 or equivalent college course with "C" or better.			This course focuses on the fundamental operations of whole and signed numbers, fractions, mixed numbers, decimals, and their use in applied problems. Other topics include factors and multiples, ratios, proportions, introductory algebra, percents, unit conversions, and geometric measurements. All topics are taught with a pre-algebra perspective.		
MATH 400	Math Supplemental Lrng Assist	0	MATH 401	Prep/Quant Qualifying Exams	0
Hours:	3.1 Lab		Hours:	.69 Lecture/Discussion	
Math Supplemental Learning Assistance is intended to strengthen students' mathematical skills and reinforce their mastery of concepts. This open entry/open exit class is linked with MATH 10, 11, 21, 70, 65, 66, 67, 80, 81, 154, 200, 230, and 360.			A survey of the strategies and skills needed to prepare for exams that require familiarity with 7-11th grade math standards. Test preparation strategies and study methods will assist students in performing better on college placement exams. Approved for Distance Education format.		

MATH 405 Augmented Instruction in Math 0
 Hours: 2 Activity
 This course provides supplemental instruction to help students succeed in their Math coursework. It will link to corresponding sections of MATH 372, MATH 360, MATH 200, or MATH 230.

METEOROLOGY

MET 001 Elementary Meteorology 3
 Hours: 3 Lecture/Discussion
 An introductory course designed to provide insights into physical processes and laws that underlie the phenomena of weather and climate. An emphasis is placed on understanding the methodologies of scientific inquiry and understanding current meteorological-environmental problems. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better, or eligibility for ENGL 1 determined by COS Placement Procedures; and MATH 200 or equivalent college course with "C" or better, or eligibility for MATH 230 determined by COS Placement Procedures (C-ID GEOG130)

MUSIC

Music Families of Courses	
Music Theatre	MUS 091
	MUS 097
Classroom Voice Family	MUS 030
	MUS 031
Chamber Ensemble Family	MUS 036
	MUS 037
	MUS 038
	MUS 039
Classroom Instrumental Family	MUS 060
	MUS 062
Commercial Music Family	MUS 226
	MUS 227
Recording Arts Family	MUS 281
	MUS 282

MUS 001 Music Fundamentals 3
 Hours: 3 Lecture/Discussion
 The basic elements of music are studied: pitch and rhythm notation, scales, major and minor keys and key signatures, transposition, intervals, chords, elementary acoustics, and an introduction to the keyboard. This is a course designed for the non-major, the elementary or secondary school teaching credential candidate, and the music major who seeks remedial instruction prior to beginning the Comprehensive Musicianship sequence. (C-ID MUS110)

MUS 004 Theory and Musicianship 1 4
 Hours: 3.5 Lecture/Discussion
 1.5 Lab

This is the first in a series of four courses intended primarily for music majors. The course will include a review of music fundamentals; an introduction to triads and seventh chords; figured bass and lead-sheet symbols; principles of voice leading; harmonic progression; nonchord tones and basic elements of musical form. All analytical concepts will be developed and applied through ear training, sight-singing, dictation and rhythmic performance. Advisory on Recommended Preparation: MUS 001 or equivalent college course with "C" or better (C-ID MUS 120 & 125)

MUS 005 Theory and Musicianship 2 4
 Hours: 3.5 Lecture/Discussion
 1.5 Lab

This is the second in a series of four courses, intended primarily for music majors. The course will include: musical form; non-chord tones; and introduction to two-part counterpoint; voice leading involving four-part choral writing; diatonic seventh chord functions; secondary function chords and modulation. All analytical concepts will be developed and applied through ear training, sight-singing, dictation and rhythmic performance. (C-ID MUS130 & 135)

Prerequisites: MUS 004 or equivalent college course with "C" or better.

MUS 006 Theory and Musicianship 3 4
 Hours: 3.5 Lecture/Discussion
 1.5 Lab

This is the third in a series of four courses, intended primarily for music majors. The course will focus on chromatic harmony and will include: secondary functions; modulations of all types; analysis of larger forms; mode mixture, Neapolitan and augmented sixth chords. All analytical concepts will be developed and applied through ear training, sight singing, dictation and rhythmic performance. (C-ID MUS140 & 145)

Prerequisites: MUS 005 or equivalent college course with "C" or better.

MUS 007 Theory and Musicianship 4 4
 Hours: 3.5 Lecture/Discussion
 1.5 Lab

This is the fourth in a series of four courses, intended primarily for music majors. The course will incorporate analysis and writing of mode mixture, chromatic mediant, Neapolitan and augmented sixth chords, 9th, 11th and 13th chords, altered dominants and the common-tone diminished seventh chord. Compositional topics will include enharmonic modulation, Impressionism, pandiatonicism, polytonality, atonal theory, twelve-tone serialism, and 20th century approaches to rhythm and meter. (C-ID MUS150 & 155)

Prerequisites: MUS 006 or equivalent college course with "C" or better.

MUS 010 Music Appreciation 3
 Hours: 3 Lecture/Discussion

Designed to aid the student in developing an understanding and an enjoyment of music. Includes the elements of music and a chronological survey of music and composers from the Middle Ages to the present. No previous musical training is necessary. (C-ID MUS100)

MUS 011 Music Appreciation/Jazz 3
 Hours: 3 Lecture/Discussion

This course is designed to aid the student in developing an understanding and enjoyment of jazz and music in general. Includes the elements of music and a chronological survey of jazz performers and composers from the 1890s to the present. No previous musical training is necessary.

MUS 013 Music of the World 3
 Hours: 3 Lecture/Discussion

MUS 13 includes a study of the elements of music as they pertain to the world's musical traditions and styles, and a survey of world music from selected regions and genres.

MUS 014 History of Rock & Roll 3
 Hours: 3 Lecture/Discussion

Equivalent Course: MUS 114.

This course is a general overview of rock and roll music and includes study of the impact of rock and roll on social, economic, cultural and political structures, as well as a chronological history of rock music. No previous musical training is necessary.

MUS 020AD	Piano	2	MUS 037	Chamber Singers Classical	2
Hours:	1.5 Lecture/Discussion 2 Lab		Hours:	6 Lab	
For a student without prior piano training who would like to learn to read music and to identify musical symbols on sight while performing a repertoire encompassing all periods of music. This course may be repeated three times and is required for all music majors.			Equivalent Course: MUS 137. MUS 037 is designed to provide an environment for study and performance of Baroque and Classical chamber music and techniques for the experienced singer. This course focuses on choral works written between 1600 - 1820. Limitation on Enrollment: Audition by Department		
MUS 025	Fine Art Cultures	1.5	MUS 038	Chamber Singers Romantic	2
Hours:	.5 Lecture/Discussion 4 Lab		Hours:	6 Lab	
Equivalent Course: MUS 125, MUS 125AD. Course focus is on understanding and approaching cultural musical functions and styles in the performing arts and will include readings, lectures, verbal and nonverbal observations, discussions on history, instrumentation, and architecture analysis of the various historical periods as they relate to fine art cultures. When possible, actual participation to play instruments or sing will be arranged. Students will travel to local sites or abroad to attend live performances for a critical analysis in performance practices, history, art and architecture.			Equivalent Course: MUS 138. MUS 038 is designed to provide an environment for study and performance of Romantic choral music and techniques for the experienced singer. This course focuses on choral works written between 1815-1910. Limitation on Enrollment: Audition by Department		
MUS 030	Beginning Voice	2	MUS 039	Chamber Singers 20th Century	2
Hours:	1.5 Lecture/Discussion 1.5 Lab		Hours:	6 Lab	
Equivalent Course: MUS 030AD. Studies in the technical, stylistic, and aesthetic components of singing, designed to help the individual student improve his/her voice and develop solo vocal repertoire.			Equivalent Course: MUS 139. MUS 039 is designed to provide an environment for study and performance of 20th Century choral music and techniques for the experienced singer. This course focuses on choral works written after 1900. Limitation on Enrollment: Audition by Department		
MUS 031	Intermediate Voice	2	MUS 041AD	Applied Music Lessons	1
Hours:	1.5 Lecture/Discussion 1.5 Lab		Hours:	3 Lab	
Equivalent Course: MUS 031AD. Studies in the technical, stylistic, and aesthetic components of singing. Intermediate Voice is a continuation of Beginning Voice (MUS 30) and will require that the student have good singing and musical skills already established. Emphasis will be placed upon singing in Italian, German, and English. Prerequisites: MUS 030 or MUS 030AD or equivalent college course with "C" or better.			This course is intended to give individual instruction for advanced music students on their respective instrument or voice. Students will be expected to pass playing exams and perform in student recitals. Limitation on Enrollment: Audition by Department. (C-ID MUS160)		
MUS 034AD	Concert Choir	1 OR 2	MUS 054AD	Symphony Orchestra	1
Hours:	3 OR 6 Lab		Hours:	3 Lab	
Materials Fee: \$10.00 MUS 034AD offers a study and the performance of choral literature from the Renaissance to Contemporary with emphasis on vocal production and tone quality, balance and blend, and musical precision and accuracy for singing in a large choral ensemble. Participation in public performance is required. Students working toward the Music AA-T degree must enroll in the 1-unit option. Limitation on Enrollment: Audition by Department. (C-ID MUS180)			The study and public performance of symphony orchestra music. Orchestral works are chosen to enhance and develop the knowledge and performing abilities of experienced orchestral musicians. Limitation on Enrollment: Audition by Department (C-ID: MUS180)		
MUS 036	Chamber Singers Renaissance	2	MUS 060	Brass Musical Instruments	2
Hours:	6 Lab		Hours:	1.5 Lecture/Discussion 1.5 Lab	
Equivalent Course: MUS 036AD. MUS 036 is designed to provide an environment for study and performance of Renaissance choral music and techniques for the experienced singer. This course focuses on choral works written before 1600. Limitation on Enrollment: Audition by Department			Equivalent Course: MUS 060AD. This course provides instruction on instruments of the brass family, including trumpet, trombone, French horn, and tuba. Instruction in the principles and physics of brass instruments and playing procedures and materials for teaching beginning brass students from elementary school through community college. Emphasis will be on care of instruments, tone production, breathing techniques and playing position.		
			MUS 062	Woodwind Instruments	2
			Hours:	1.5 Lecture/Discussion 1.5 Lab	
			Equivalent Course: MUS 062AD. This class will consist of elementary instruction of a basic woodwind instruments: clarinet, saxophone, oboe and bassoon. Emphasis is placed on tone production, fingering technique and care of instrument.		
			MUS 072AD	Jazz Orchestra	2
			Hours:	6 Lab	
			A study and performance of Jazz Orchestra repertory with special attention to interpretation, tone, technique, improvisation and general effect. All basic concepts of musicianship will be stressed through lecture, discussion, and rehearsals with the final goal of performing		

in public concerts. Participation in public performance is required. (C-ID MUS180)

MUS 074AD Symphonic Band 1 OR 2
Hours: 3 OR 6 Lab

A study and performance of standard symphonic band repertory with special attention to interpretation, tone, technique, and general effect. All basic concepts of musicianship will be stressed through lecture, discussion, and rehearsals with the final goal of performing in public concerts. Participation in public performance is required. This course can be repeated three times. Students working toward the Music AA - T degree are required to take the 1 unit option. (C-ID MUS180)

MUS 091 Music Theatre Orchestra 2
Hours: 7 Activity

Equivalent Course: MUS 091AD.

Music Theatre Orchestra will emphasize the rehearsal and performance techniques necessary to accompany the production of a musical. Limitation on Enrollment: Audition by Department

MUS 096 Master Chorale - Renaissance 1
Hours: 3 Lab

Equivalent Course: MUS 096AD, MUS 196AD.

A study and performance of choral literature focusing on works of the Renaissance period 1450-1600. Evening Rehearsals. Limitation on Enrollment: Audition by Department

MUS 097 Music Theatre Voice 2
Hours: 7 Activity

Equivalent Course: MUS 097AD.

Experience in singing, drama and theatre through active participation in major musical and dramatic productions. Includes training and experience in all facets of the theatre. Audition by department.

MUS 180 The Music Business 2
Hours: 2 Lecture/Discussion

This course is an introduction to the inner workings of the music industry. Intellectual property protections, management teams, recording contracts, publishing deals, and current industry trends will be studied and discussed. Career opportunities and employability enhancement will be explored. Guest speakers, as availability permits, may be a part of the course.

MUS 226 Computerized Audio 1: Midi 2
Hours: 1 Lecture/Discussion
3 Lab

Equivalent Course: MUS 126AD, MUS 226AD.

This course focuses on the use of a MIDI capable DAW (Digital Audio Workstation) for the production of popular music. iMac computers, Yamaha keyboards, and Pro Tools software are used in conjunction to teach students the fundamentals of MIDI technology for creating their own music.

MUS 227 Computerized Audio Prod 2 2
Hours: 1 Lecture/Discussion
3 Lab

Equivalent Course: MUS 127AD, MUS 227AD.

This is an intermediate course focusing on the use of a DAW (Digital Audio Workstation) for the production of popular music. iMac computers, Yamaha keyboards, and Pro Tools software and a variety of Virtual Instruments are used in conjunction to teach students advanced techniques in Computer Audio production and editing.

Prerequisites: MUS 226AD or MUS 226 or equivalent college course with "C" or better.

MUS 281 Recording Arts 1 2
Hours: 1.5 Lecture/Discussion
2 Lab

Equivalent Course: MUS 181.

Hands-on instruction for beginners in the use of multi-track recording systems, with emphasis on the development of critical listening and thinking skills related to sound, recording, reproduction and music technology.

MUS 282 Recording Arts 2 3
Hours: 1.5 Lecture/Discussion
4.5 Lab

Equivalent Course: MUS 182.

Intermediate students will acquire hands-on multi-track recording technique in strategy with producers studio musicians and recording engineers. Course will cover advanced signal processing, recording production and management procedures.

Prerequisites: MUS 281 or MUS 181 or equivalent college course with "C" or better.

NATURAL SCIENCES

NSCI 131 Chem & Physics for Educators 4
Hours: 3 Lecture/Discussion
2 Lab
1 Activity

A general principles science course for students transferring as Liberal Studies majors. Basic principles of chemistry and physics relevant to elementary education are stressed. Applying these topics to everyday experience is emphasized. The course is designed to meet only the science requirements of Liberal Studies programs at CSU Fresno. (C-ID PHYS140)

Prerequisites: MATH 200 or equivalent college course with "C" or better or eligibility for MATH 230 as determined by COS placement procedures.

NURSING

NURS 106 Cultural Comptcy in Healthcare 3
Hours: 3 Lecture/Discussion

This course explores cultural competency skills required to assist individuals to promote, maintain and restore health. Emphasis is placed on analyzing differences in cultural demographics, beliefs, traditions, communication, biological variations and common morbidities. Advisory on Recommended Preparation: ENGL 001 or equivalent college course with "C" or better

NURS 142 Pharmacology in Healthcare 3
Hours: 3 Lecture/Discussion

This nursing course is a study of the pharmacotherapy related to the nursing care of clients across the lifespan. The progressive themes of the nursing program are applied through the nursing process to attain the client's optimal well-being. Advisory on Recommended Preparation: BIOL 031 or equivalent college course with "C" or better

NURS 151 Intro Promote&Restore Wellness 3
Hours: 1.5 Lecture/Discussion
4.5 Lab

This second semester course is a study of basic medical-surgical nursing principles and clinical skills which assist clients in promoting and restoring optimal wellness. Client care occurs in a variety of acute and community settings. The progressive themes of the nursing program are applied through the nursing process.

Corequisites: NURS 152, NURS 154.

NURS 152	Promoting Perinatal Wellness	4	NURS 164	Promote and Restore Wellness 2	8
Hours:	2 Lecture/Discussion 6 Lab		Hours:	4 Lecture/Discussion 12 Lab	
Materials Fee:	\$6.00		Materials Fee:	\$4.00	
This course is completed during the second semester of the Registered Nursing Program. It consists of study and application of theory to clinical care of the childbearing family, including maintaining and promoting optimal wellness. It includes concepts of perinatal care. The progressive themes of the Nursing program are applied through the nursing process to attain the client's optimal well-being. Prerequisite of NURS 161 may be waived with LVN Licensure and NURS 150.			This fourth semester nursing course is a study of complex medical-surgical nursing concepts to promote and restore wellness in complex clients. In the clinical laboratory, students will increase skills to promote and restore optimal wellness. The progressive themes of the nursing program are applied through the nursing process to attain the client's optimal well-being.		
Prerequisites: NURS 161 or equivalent college course with "C" or better.			Prerequisites: NURS 163 or equivalent college course with "C" or better.		
NURS 153	Promoting Pediatric Wellness	4	NURS 166	Nursing Leadership	3
Hours:	2 Lecture/Discussion 6 Lab		Hours:	.5 Lecture/Discussion 7.5 Lab	
This course is completed during the third semester of the Registered Nursing Program. It consists of study and application of theory to clinical care of the pediatric client and family, including maintaining and promoting optimal wellness. The progressive themes of the Nursing program are applied through the nursing process to attain the client's optimal well-being. Prerequisites of NURS 161 (may be waived with LVN licensure and NURS 150), NURS 151, NURS 152, & NURS 154.			This is a study of the leadership role of the Registered Nurse in providing integrated, cost-effective care to clients by coordinating, supervising, and collaborating with members of the health care team.		
Prerequisites: NURS 161 and NURS 151 and NURS 152 and NURS 154 or equivalent college courses with "C" or better.			Prerequisites: NURS 163 and NURS 153 or equivalent college courses with "C" or better.		
NURS 154	Promoting Mental Wellness	4	NURS 220	Perioperative Nursing	4
Hours:	2 Lecture/Discussion 6 Lab		Hours:	2 Lecture/Discussion 6 Lab	
This second semester course is a study of psychiatric, mental-health concepts to promote and restore wellness. The progressive themes of the Nursing program are applied through the nursing process to attain the client's optimal well-being.			Equivalent Course: NURS 120.		
Prerequisites: NURS 161 or equivalent college course with "C" or better.			This is an elective course in perioperative nursing. This course is designed to prepare a competent and knowledgeable practitioner to administer optimum care to select surgical patients during pre-operative, intra-operative, and post-operative phases of surgical intervention.		
Prerequisites: NURS 161 or equivalent college course with "C" or better.			Prerequisites: NURS 161 or equivalent college course with "C" or better.		
NURS 161	Maintaining Optimal Wellness	11	NURS 260	Nursing Assistant	6
Hours:	5 Lecture/Discussion 18 Lab		Hours:	4 Lecture/Discussion 7 Lab	
Materials Fee:	\$14.00		Equivalent Course: NURS 351.		
This first semester course is an introduction to the elements of client-centered care based on the nursing process, emphasizing assessment and the older adult. Introduces nursing program threads: caring, safety, psychomotor skills, critical thinking, communications, teaching, growth, development, adaptation, and legal, ethical, and professional nursing. The progressive themes of the nursing program are applied through the nursing process to attain the client's optimal well-being. Limitation on Enrollment: Acceptance into the RN Program.			This course is designed to prepare the student as an entry-level worker, providing basic nursing care to patients in acute care and long-term care settings. The curriculum is structured to provide theory and application in skills needed to function as a Nursing Assistant. Upon completion, students will be eligible to take the state certification examination.		
Prerequisites: (BIOL 030 and BIOL 031 and BIOL 040) and (ENGL 001 or equivalent college courses with "C" or better or eligibility as determined by COS placement procedures.			*Required by the clinical placement facilities: the student must have a current American Heart Association, Health Care Provider CPR Certification.		
NURS 163	Promote and Restore Wellness 1	6	NURS 310	Prepare/Health Care Careers	2
Hours:	3 Lecture/Discussion 9 Lab		Hours:	2 Lecture/Discussion	
Materials Fee:	\$4.00		This course assists any new or returning college student to be successful. Assessment and application of individual learning styles are done. Learning skills such as note-taking, testing, and writing are reviewed. Basic arithmetic, problem-solving skills, library and computer resources, means to manage money, and stay healthy are discussed.		
This third semester nursing course is a study of intermediate medical-surgical nursing principles and clinical skills which assist adult clients in promoting and restoring optimal wellness. Client care occurs in a variety of acute and community settings. The progressive themes of the nursing program are applied through the nursing process.			Prerequisites: NURS 151 and NURS 152 and NURS 154 or equivalent college courses with "C" or better.		
Prerequisites: NURS 151 and NURS 152 and NURS 154 or equivalent college courses with "C" or better.			NURS 400	Nursing Skills Lab	0
			Hours:	3 Lab	
			Equivalent Course: NURS 400AD.		
			This course provides the student an opportunity for additional directed learning and supervised laboratory time to develop and refine nursing clinical skills necessary to the safe clinical practice of professional nursing. The student will gain knowledge from instructor demonstration, a variety of electronic media, computers and simulation. Limitation on Enrollment: Must be enrolled in the COS Registered Nursing Program.		

NUTRITION/FOODS

NUTR 018 Introduction to Nutrition 3

Hours: 3 Lecture/Discussion

A scientific study of basic chemical, biological and physiological principles and concepts of human nutrition. These principles are applied to the individual and appropriate food selection.

Prerequisites: MATH 360 and ENGL 251 or equivalent college courses with "C" or better.

NUTR 020 Cultural Foods 3

Hours: 2 Lecture/Discussion
3 Lab

Materials Fee: \$45.00

Examination of the cultural and social meanings of food, food behaviors and food systems. Emphasis on the regional, ethnic and religious influences on food habits. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better, or eligibility for ENGL 1 determined by COS Placement Procedures and MATH 360 or equivalent college course with "C" or better or eligibility for MATH 200 as determined by COS Placement Procedures

NUTR 107 Sanitation and Safety 2

Hours: 2 Lecture/Discussion

This course provides accurate, up-to-date information for all levels of employees in all aspects of food handling. It includes laws and regulations for food safety within the rapidly growing restaurant and food service industry. Students may elect to take the National Food Safety certificate exam at the end of the course.

NUTR 119 Nutrition for Fitness 3

Hours: 3 Lecture/Discussion

Equivalent Course: HW 119.

This course is designed to acquaint students with the nutritional needs of athletes and the relationship between nutrition and fitness. Students are required to use the computer, Internet and basic math skills to calculate nutritional needs. Topics include human energy, nutrient groups, body composition, and supplement use.

NUTR 214 Cooking for a Healthy Life 3

Hours: 2 Lecture/Discussion
3 Lab

Materials Fee: \$50.00

Equivalent Course: NUTR 114.

A hands-on cooking class which applies current nutritional guidelines to menu planning, food selection and recipe preparation. Basic skills to evaluate the healthfulness of foods will also be covered.

NUTR 218 Nutrition Basics 3

Hours: 3 Lecture/Discussion

Students will study the science of nutrition to include the study of protein, carbohydrates, lipids, vitamins, minerals and water. Students will assess their dietary habits, become informed nutrition consumers, and make healthy nutrition choices.

ORNAMENTAL HORTICULTURE

OH 001 Basic Ornamental Horticulture 3

Hours: 3 Lecture/Discussion
1 Lab

Materials Fee: \$5.00

Equivalent Course: OH 101.

This is an introductory course in ornamental horticulture. The main topics covered in class include: introduction to the ornamental horticulture field and related employment opportunities, introduction to plant

taxonomy, plant anatomy and physiology, environmental requirements for plant growth and development, basic plant propagation techniques, integrated pest management, and the fundamentals of soil, water and fertilizers. Students learn how the ornamental horticulture industry applies and utilizes this knowledge at a practical level, and how new knowledge is acquired through experimental research employing the scientific method.

OH 002 Plant Identification 1 3

Hours: 3 Lecture/Discussion
1 Lab

Materials Fee: \$10.00

This course presents botanical nomenclature, scientific and common plant names, how plants are used in the landscape, forms of plants, and soil and nutritional requirements. Plants emphasized will come from the current California Association of Nurseries & Garden Centers (CANGC) and Professional Landcare Network (PLANET) Certification Tests Plant Lists. Plant materials from local regions will also be included. (C-ID AG-EH108L)

OH 003 Plant Identification 2 3

Hours: 3 Lecture/Discussion
1 Lab

Materials Fee: \$10.00

This course presents botanical nomenclature, scientific and common plant names, uses of ornamental plants in the landscape, general forms and growth habits of plants, and plant environmental requirements. Plants emphasized will come from the current California Association of Nurseries & Garden Centers (CANGC) and Professional Landcare Network (PLANET) Certification Tests Plant Lists. Plant materials from local regions will also be included. (C-ID AG-EH112L)

OH 007 Principles of Landscape Design 3

Hours: 3 Lecture/Discussion
1 Lab

Materials Fee: \$15.00

This course covers the fundamental principles of residential landscape design. Design theory, client needs, location design solutions, plant combination theory and an appreciation for quality designs are emphasized. Computer landscape drafting software is utilized to produce designs.

OH 105 Plant Propagation 3

Hours: 3 Lecture/Discussion
1 Lab

Materials Fee: \$10.00

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. Laboratory required. Advisory on Recommended Preparation: OH 001 or equivalent college course with "C" or better (C-ID AG-EH 116L)

OH 109 Landscape Maintenance 3

Hours: 3 Lecture/Discussion
1 Lab

This course is a lecture lab combination and covers skills and activities related to landscape maintenance such as pruning, planting, fertilizing, irrigation system repair, lawn mowing, pest control, safety on the worksite, and landscape management equipment operation and safety. This class is a requirement for the Landscape Management certificate and degree. It is also a valuable course for home owners wanting to gain skills to maintain their own landscapes.

OH 111	Floral Design	3
Hours:	3 Lecture/Discussion 1 Lab	
Materials Fee:	\$100.00	
This introductory course in floral design covers the various phases of floral design. Through floral design, students will develop an awareness of ways in which people throughout the ages and in different cultures have used floral arrangements to enhance their lives through artistic expression.		
OH 204	Nursery & Greenhouse Productn.	3
Hours:	3 Lecture/Discussion 1 Lab	
Equivalent Course: OH 104.		
This course provides an historical overview of the nursery industry. It covers the basic operation activities and practices of commercial nurseries. Students receive practical experience in various aspects of the nursery industry including: propagating, fertilizing, training, pruning, transplanting, potting, irrigating, marketing, selling, and controlling pests and diseases. Emphasis is on ornamental trees, shrubs, and flowering annuals and perennials. Advisory on Recommended Preparation: OH 001 or equivalent college course with "C" or better		
OH 206	Landscape Drafting	3
Hours:	3 Lecture/Discussion 1 Lab	
Materials Fee:	\$15.00	
Equivalent Course: OH 106.		
This course is designed to teach students the basic drafting techniques and standards for creating residential landscape plans using computer drafting software. Students learn landscape symbols, lettering styles and methods of drafting landscape plans using section and detail drawings.		
OH 208	Landscape Construction	3
Hours:	3 Lecture/Discussion 1 Lab	
Equivalent Course: OH 108.		
This course covers the fundamentals of residential landscape construction including: soil preparation, hardscape installation and maintenance, construction materials, hand and power tools, construction equipment, turf and plant installation, plan reading, bidding and estimating, and basic irrigation system construction. Advisories on Recommended Preparation: OH 109 and OH 217 or equivalent college courses with "C" or better		
OH 210	Turfgrass Management	3
Hours:	3 Lecture/Discussion 1 Lab	
Equivalent Course: OH 110.		
This course in turfgrass management emphasizes the management practices used to grow turf in the San Joaquin Valley. Content includes identification of common turfgrass varieties, an overview of common techniques and equipment utilized to propagate, mow, fertilize, aerate, and irrigate turfgrass, the management of common pests and diseases, and the maintenance and operation of turf equipment. Advisory on Recommended Preparation: OH 001 or equivalent college course with "C" or better		
OH 212	Sympathy Flowers	3
Hours:	2.5 Lecture/Discussion 1.5 Lab	
Materials Fee:	\$100.00	
Equivalent Course: OH 112.		
This course teaches the advanced styling and design of flowers specifically for sympathy work, casket sprays, wreaths, hospital arrangements		

and solid work. Advisory on Recommended Preparation: OH 111 or equivalent college course with "C" or better

OH 213	Wedding Flowers	3
Hours:	2.5 Lecture/Discussion 1.5 Lab	

Materials Fee: \$100.00

Equivalent Course: OH 113.

This course focuses on advanced styling of floral designs to wear and carry, as practiced specifically in wedding work, including complete coverage of wedding bouquets, corsages, church decorations, balloons and bouquet decor and the basic principles of theory and design relevant to wedding styles. Advisory on Recommended Preparation: OH 111 or equivalent college course with "C" or better

OH 217	Landscape Irrigation	3
Hours:	3 Lecture/Discussion 1 Lab	

Equivalent Course: OH 117.

This course covers the identification of system components, design concepts, installation and assembly of various landscape irrigation systems. It is a requirement for the Landscape Management Certification program.

OH 218	Xeriscape: Water Conservation	3
Hours:	3 Lecture/Discussion 1 Lab	

Equivalent Course: OH 118.

This course will prepare students to utilize the principles of xeriscaping when evaluating, planning, designing, installing and maintaining landscapes. The primary focus of the course is to prepare students to utilize horticultural theory and practices to conserve water in the management of landscapes.

OH 220	Diseases of Ornamentals	3
Hours:	3 Lecture/Discussion 1 Lab	

Materials Fee: \$15.00

Equivalent Course: OH 120.

This course covers the diagnosis, analysis and management of plant diseases. The focus is on the principles and methods of controlling plant diseases, including biological, cultural, physical, mechanical, and chemical elements. Pesticide safety, formulation, and methods of application are included.

OH 222	Pests of Ornamentals	3
Hours:	3 Lecture/Discussion 1 Lab	

Materials Fee: \$15.00

Equivalent Course: OH 122.

This course covers the elements of identification and management of economically important arthropod pests and beneficials of landscapes and nursery ornamental plants. Principles of controlling pests including biological, cultural, physical, mechanical, and chemical are discussed. Pesticide safety, formulations, and methods of application are presented. It helps students prepare for the pest control advisor's examination. Advisory on Recommended Preparation: OH 001 or equivalent college course with "C" or better

OH 223 Interior Floral Design

3

Hours: 2.5 Lecture/Discussion
1.5 Lab

Materials Fee: \$100.00

Equivalent Course: OH 123.

Silk and dried floral design includes designs with nonliving semi/permanent materials. Tools, materials, care, basic techniques, design styles, and techniques in both dried and silk arrangements are studied. This course is an integral part of a floral design program intended for those persons desiring to enter the floral design industry. It is also of great value to persons pursuing careers in the area of interior design and home furnishings. Students will acquire the knowledge and skill to bring grace and color to interior spaces. Advisory on Recommended Preparation: OH 111 or equivalent college course with "C" or better

PE ACTIVITY	
Physical Education Families of Courses	
Aerobics Family	PEAC 001
	PEAC 002
	PEAC 003
	PEAC 004
Aquatics Family	PEAC 008
	PEAC 009
	PEAC 010
	PEAC 011
Baseball Family	PEAC 015
	PEAC 016
	PEAC 017
Basketball Family	PEAC 021
	PEAC 022
Football Family	PEAC 025
	PEAC 026
Mechanics of Movement Family	PEAC 030
Mind/Body Wellness Family	PEAC 036
	PEAC 037
	PEAC 038
	PEAC 039
Soccer Family	PEAC 042
Softball Family	PEAC 046
	PEAC 048
Tennis Family	PEAC 052
	PEAC 053
Track and Field Family	PEAC 056
Volleyball Family	PEAC 064
	PEAC 065
Walk/Jog Fitness Family	PEAC 068
	PEAC 069
	PEAC 070
	PEAC 071
Weight Training Family	PEAC 074
	PEAC 075
	PEAC 076
Cheer Family	PEAC 060
	PEAC 061
	PEAC 262
	PEAC 263

PEAC 001	Aerobic Conditioning	1	PEAC 010	Advanced Swimming	1
Hours:	.5 Lecture/Discussion 1.5 Activity		Hours:	.5 Lecture/Discussion 1.5 Activity	
	Equivalent Course: PE 001AD.			Advanced Swimming is an aquatics activity course designed for the swimmer who has mastered the basic skills and wants to learn advanced swim techniques. Emphasizes competitive strokes, turns and starts, as well as cardiovascular fitness concepts and workouts.	
	PEAC 001 is designed for the student who seeks knowledge about and participation in aerobic fitness. Exercises are done to music with an emphasis on cardiovascular conditioning, strength and flexibility. Each student is pre-tested and post-tested in various health and fitness components.				
PEAC 002	Non-Impact Aerobics	1	PEAC 011	Swimming for Fitness	1
Hours:	.5 Lecture/Discussion 1.5 Activity		Hours:	.5 Lecture/Discussion 1.5 Activity	
	Equivalent Course: PE 002AD.			Equivalent Course: PE 026AD.	
	Non-impact aerobics is designed specifically for students who are just beginning a fitness program or are in need of a non-impact form of work-out. Aerobic exercise routines are done to slower-paced music, incorporating movements where no jumping or bouncing takes place. The non-impact aerobic phase is then followed by a series of muscle-toning exercises. Each student is pre-tested and post-tested in various health and fitness components.			Designed for the student who wishes to participate in the sport of swimming to increase/improve cardiovascular stress and muscular endurance. This course is directed to the student who is interested in lap swimming as a means of exercise.	
PEAC 003	Step Aerobics	1	PEAC 015	Fundamentals of Baseball	1
Hours:	.5 Lecture/Discussion 1.5 Activity		Hours:	.5 Lecture/Discussion 1.5 Activity	
	Equivalent Course: PE 010AD.			Equivalent Course: PE 010AD.	
	Step Aerobics is a high energy, low impact class designed to improve cardiovascular fitness through basic step principles. Flexibility and strength exercises as well as warm-up and cool down exercises will also be introduced. Each student will demonstrate, through Step Aerobics, a working knowledge of correct form and alignment, cardiovascular fitness using steps, and muscular strength. Exercises are performed to music. Each student is pre-tested and post-tested in various health and fitness components.			This course is designed for students who wish to learn the fundamental skills of baseball. It will enable students to communicate the proper fundamentals involved with throwing, fielding, pitching, and batting associated with baseball.	
PEAC 004	Circuit Training	1	PEAC 016	Conditioning for Baseball	1
Hours:	.5 Lecture/Discussion 1.5 Activity		Hours:	.5 Lecture/Discussion 1.5 Activity	
	Equivalent Course: PE 029AD, PE 113AD.			Equivalent Course: PE 029AD, PE 113AD.	
	Circuit Training is an aerobic workout using resistance exercises designed to increase strength, cardiovascular and muscular endurance. A circuit will consist of 6-20 stations lasting 1-3 minutes per station, which may include but not be limited to exercise machines, weights, steps, jump ropes, resistance bands and plyo balls. Students will learn dynamic stretch and warm-up routines, proper body mechanics and major postural muscle groups, as well as learn how to attain, monitor and control heart rate during exercise. Each student is pre-tested and post-tested in various health and fitness components.			Conditioning for Baseball is a one-unit course designed to help entering student athletes make the transition from high school athletic competition to collegiate athletic competition. This course addresses fitness, nutritional and conditioning concepts and rules, with most emphasis on sport specific conditioning.	
PEAC 008	Beginning Swimming	1	PEAC 017	Techniques of Baseball	1
Hours:	.5 Lecture/Discussion 1.5 Activity		Hours:	.5 Lecture/Discussion 1.5 Activity	
	Equivalent Course: PE 025AD.			Equivalent Course: PE 012AD.	
	Beginning Swimming is a general introduction to swimming and aquatics. It is designed for the beginner or non-swimmer who wants to learn aquatic fundamentals and receive stroke instruction in front crawl, elementary backstroke and sidestroke.			This course is designed for the advanced baseball player. It will prepare the student for baseball competition with physical fitness training and intra-class play. Advanced skills in throwing, fielding, batting and pitching a baseball will be taught and practiced.	
PEAC 009	Intermediate Swimming	1	PEAC 021	Beginning Basketball	1
Hours:	.5 Lecture/Discussion 1.5 Activity		Hours:	.5 Lecture/Discussion 1.5 Activity	
	Equivalent Course: PE 014AD.			Equivalent Course: PE 014AD.	
	Intermediate Swimming is an activity course designed for the intermediate swimmer. Emphasis is on refinement of front crawl, elementary backstroke, and sidestroke with stroke instruction on back crawl, breaststroke, turns and basic survival techniques. Fitness concepts will be introduced.			Designed for students interested in the sport of basketball; both experienced players and those not familiar with the game. The basic fundamentals and rules of basketball will be covered.	
			PEAC 022	Intermediate Basketball	1
			Hours:	.5 Lecture/Discussion 1.5 Activity	
				Equivalent Course: PE 014AD.	
				Intermediate Basketball is a course that will emphasize the refinement of general basketball skills.	

<p>PEAC 025 Fundamentals of Football 1 Hours: .5 Lecture/Discussion 1.5 Activity <i>Equivalent Course: PE 015AD.</i> The student will learn basic fundamentals and strategies of football. Offensive, defensive and special teams will be covered along with conditioning exercises.</p>	<p>PEAC 042 Soccer 1 Hours: .5 Lecture/Discussion 1.5 Activity <i>Equivalent Course: PE 021AD.</i> This course is designed for any student interested in the sport of soccer. This course focuses on three main aspects: basic soccer skills, offensive and defensive strategy, rules and regulations.</p>
<p>PEAC 026 Conditioning for Football 1 Hours: .5 Lecture/Discussion 1.5 Activity <i>Equivalent Course: PE 016AD.</i> Conditioning for Football is a one-unit course designed to build on basic fundamentals and provide a more intense learning experience. This is a fitness program for students wishing to prepare for high-level, competitive, intercollegiate football, using plyometrics, speed and strength training.</p>	<p>PEAC 046 Women's Softball-Beginning 1 Hours: .5 Lecture/Discussion 1.5 Activity This class is designed for the student who wants to learn the necessary skills required to play the game of fast-pitch softball. Elementary skills of throwing, fielding, batting and pitching will be taught and practiced.</p>
<p>PEAC 030 Joint Mobility and Fitness 1 Hours: .5 Lecture/Discussion 1.5 Activity This course is designed to provide students interested in participating in sports involving overhead movement to develop the necessary joint fitness that enhances pain-free participation. The focal points of the course will involve the shoulder stabilizers, hip mobility, rotator cuff flexibility and strength, and lateral ankle flexion.</p>	<p>PEAC 047 Intermediate Softball 1 Hours: .5 Lecture/Discussion 1.5 Activity <i>Equivalent Course: PE 024AD, PE 124AD.</i> A one-unit activity course designed to improve an individual's overall fitness, injury prevention and conditioning through an understanding of principles and techniques as applied to the sport of softball. Intermediate skills will be applied with an increase in fitness levels.</p>
<p>PEAC 036 Stretch and Tone 1 Hours: .5 Lecture/Discussion 1.5 Activity <i>Equivalent Course: PE 006AD, PE 116AD.</i> Stretch and Tone is a class designed for all fitness levels. Students will learn how to safely and effectively strengthen and stretch the body's major muscle groups with correct form and alignment.</p>	<p>PEAC 048 Women's Softball-Advanced 1 Hours: .5 Lecture/Discussion 1.5 Activity This course is designed for the student/athlete who wants to participate in fast-pitch softball at an advanced level, meaning at the collegiate and/or international-Olympics level. Advanced technical skills taught in the domains of baserunning, sliding, diving, throwing, fielding, hitting, and pitching.</p>
<p>PEAC 037 Pilates Mat Class 1 Hours: .5 Lecture/Discussion 1.5 Activity <i>Equivalent Course: PE 044AD, PE 107AD.</i> Pilates is a workout to condition and strengthen the muscles that support the spine. This Pilates Mat class is designed for all students and will develop flexibility, coordination, and balance through a safe progression of challenging and functional exercises.</p>	<p>PEAC 052 Beginning Tennis 1 Hours: .5 Lecture/Discussion 1.5 Activity <i>Equivalent Course: PE 030AB.</i> An activity course designed for the student who wishes to develop an understanding and appreciation for the game of tennis. Basic skills, strategies and rules will be covered.</p>
<p>PEAC 038 Introduction to Yoga 1 Hours: .5 Lecture/Discussion 1.5 Activity <i>Equivalent Course: PE 046AD, PE 108AD.</i> Introduction to basic yoga poses with emphasis on form and body alignment. Core strength, flexibility, and balance emphasized in poses. Relaxation and breathing techniques also introduced.</p>	<p>PEAC 053 Intermediate Tennis 1 Hours: .5 Lecture/Discussion 1.5 Activity This course is designed for the student who has taken Beginning Tennis or is at a more advanced level of play and desires detail in strategies and knowledge of the game of tennis.</p>
<p>PEAC 039 Hatha Yoga Fundamentals 1 Hours: .5 Lecture/Discussion 1.5 Activity Continuing instruction in asanas (postures) with attention to postural alignment of the body and breath coordination to develop flexibility, core strength, endurance, and balance, and to manage stress. Emphasis in this class on practitioner self-adjustment, philosophy of yoga, and role of yoga practice in life strategy for health and wellness.</p>	<p>PEAC 056 Beginning Track and Field 1 Hours: .5 Lecture/Discussion 1.5 Activity <i>Equivalent Course: PE 009AD.</i> Beginning Track and Field is a one-unit activity course designed to improve the individual's overall fitness through an understanding and application of the basic principles and techniques of track and field.</p>
	<p>PEAC 060 Varsity Performance 1 2 Hours: .5 Lecture/Discussion 4.5 Activity <i>Equivalent Course: PE 042AD, PE 142AD.</i> Varsity Performance is designed to enhance the skills of the Pep Squad/Flag or Dance team as they work to build performances for competition. First year team members will exhibit their skills at athletic events, concerts, exhibitions and competition events. Limitation on Enrollment: Audition by department.</p>

PEAC 061 Varsity Performance 2 2
Hours: .5 Lecture/Discussion
4.5 Activity

Varsity Performance 2 is designed to enhance the performance skills of second season members of Pep Squad/Flag or Dance team performing beyond the level attained in PEAC 060. They will lead the team, working to build performance routines for competition. Team members will refine their skills in performance at athletic events, concerts, exhibitions and competition events. All participants must audition to participate in this activity. Limitation on Enrollment: Audition by Department

PEAC 064 Beginning Volleyball 1
Hours: .5 Lecture/Discussion
1.5 Activity

Equivalent Course: PE 034AB.

Beginning Volleyball is a one unit course for the development of basic fundamental skills in volleyball through drills and play.

PEAC 065 Intermediate Volleyball 1
Hours: .5 Lecture/Discussion
1.5 Activity

This course is designed to introduce advanced skills necessary for playing competitive volleyball. Skills covered include basic skills, fast offense, court positioning, rolls, dives and team strategy, both offensive and defensive.

PEAC 068 Beginning Fitness Walking 1
Hours: .5 Lecture/Discussion
1.5 Activity

This course is designed to expose the student to the basic components and benefits of walking for fitness. The student will develop a practical and theoretical understanding of the health related benefits in terms of cardiovascular fitness related to walking.

PEAC 069 Intermediate Fitness Walking 1
Hours: .5 Lecture/Discussion
1.5 Activity

This course will provide students the opportunity to participate and attain an increased level of fitness through the exercise of walking. The course will incorporate intermediate fitness walking skills that will improve aerobic capacity and muscular strength and endurance by incorporating faster paced walking techniques. Other components include power walking, computation of heart rate zones, stretching to increase flexibility and safety procedures related to health.

PEAC 070 Walk/Jog for Aerobic Fitness 1
Hours: .5 Lecture/Discussion
1.5 Activity

Equivalent Course: PE 003AD.

Walk/Jog for Aerobic Fitness teaches proper walking and jogging techniques, as well as basic health and wellness concepts. Primary emphasis will be on concepts of cardiovascular conditioning, flexibility, muscular endurance and muscular strength. Distance training will be introduced as well.

PEAC 071 Cross Interval Training 1
Hours: .5 Lecture/Discussion
1.5 Activity

Cross Interval Training is a fitness course which involves a repeated series of exercise workouts interspersed with rest or relief periods. Cross training is used to strengthen a variety of muscles. Interval training programs are designed to improve speed and anaerobic conditioning, as well as aerobic endurance. A variety of venues (track, field area, pool, weight room, gym and aerobic room) and techniques will be used to

achieve cardiovascular fitness and muscle endurance. Each student is pre- and post-tested in various health and fitness components.

PEAC 074 Beginning Weight Training 1
Hours: .5 Lecture/Discussion
1.5 Activity

Equivalent Course: PE 004AD.

This course is designed as a general introduction to weight or resistance training. Students will utilize free weights and weight machines to build strength and muscular endurance. Exercises that use progressive resistance movements will be emphasized.

PEAC 075 Intermediate Weight Training 1
Hours: .5 Lecture/Discussion
1.5 Activity

Advanced work for toning and muscular development through the use of weights, variable resistance machines and other weight devices.

PEAC 076 Adv Strength/Body Bldg Prin. 2
Hours: 1 Lecture/Discussion
3 Activity

Equivalent Course: PE 005AB.

This course is designed for the student who seeks further knowledge in the scientific and theoretical components of resistance training. Included in the course are basic principles of strength development, body building, diet, nutrition and weight control, based on the foundation of resistance prescriptions. Course will focus on barbells, dumbbells and machines as the vehicle for development of the major muscle groups. Proper mechanics of exercise and safety factors are stressed.

PEAC 262 Cheer Fitness 1 1
Hours: .5 Lecture/Discussion
1.5 Activity

Equivalent Course: PE 243AD.

This course is designed to introduce and implement aerobic training and conditioning for cheerleading to help in the development of the upper body, core and lower legs. Exercises pertaining to the sport of cheerleading, i.e., jumps, leaps, kicks and stunts, will be performed by the student to increase flexibility, strength and cardiovascular fitness levels. This is the first year level.

PEAC 263 Cheer Fitness 2 1
Hours: .5 Lecture/Discussion
1.5 Activity

This course is the second year required course for second year cheer team members. Designed to implement aerobic training and conditioning for Cheer leading to further help in the development of the upper body, core and lower legs strength. Exercises will be performed by the student to increase flexibility, strength and cardiovascular fitness levels which pertain to the sport of cheerleading, i.e., jumps, leaps, kicks and stunts.

Prerequisites: PEAC 262 or equivalent college course with "C" or better.

PARALEGAL

PARA 101 Intro to Paralegalism 3
Hours: 3 Lecture/Discussion

This required survey course is the initial course in a program designed to train the student for employment as a paralegal. The student is given basic knowledge of the role of a paralegal in the community, career opportunities, legal ethics, legal analysis, including case briefing, introduction to the law library and exposure to various substantive and procedural areas of the law.

PARA 102	Legal Terminology	2
Hours:	2 Lecture/Discussion	
This course, required for the Paralegal major or certificate, provides an overview of the law and legal terminology. Advisory on Recommended Preparation: PARA 101 or equivalent college course with "C" or better (PARA 101 may be taken concurrently.)		
PARA 203	Civil Procedures 1	4
Hours:	4 Lecture/Discussion	
Equivalent Course: PARA 103.		
This course covers both California and federal concepts of civil procedure. Students complete legal documents necessary for a civil lawsuit using computerized judicial council forms and other legal software. Prerequisites: PARA 101 or equivalent college course with "C" or better.		
PARA 204	Civil Procedures 2	3
Hours:	3 Lecture/Discussion	
Equivalent Course: PARA 104.		
This course expands upon the basic concepts of civil procedure. Students draft complicated civil pleadings, discovery devices, writs, and the legal documents necessary to enforce a money judgment. Prerequisites: PARA 203 or equivalent college course with "C" or better.		
PARA 205	Legal Research and Writing	4
Hours:	4 Lecture/Discussion	
Equivalent Course: PARA 105.		
This required course for paralegal majors covers the tools for researching both federal and California law. Students use both print and computerized sources to write legal memoranda and points and authorities. Advisory on Recommended Preparation: BUS 270 or BUS 271 or COMP 136 or equivalent college courses with "C" or better Prerequisites: PARA 101 or equivalent college course with "C" or better.		
PARA 210	Legal Ethics, Mgt & Interview	3
Hours:	3 Lecture/Discussion	
Equivalent Course: PARA 110.		
This course assists students in making the transition from the classroom to the law office. The course covers ethical principles, job search skills, client interviewing and law office management skills.		
PARA 232	Wills, Trusts and Elder Law	2
Hours:	2 Lecture/Discussion	
This is an elective course in the paralegal major designed to familiarize the student with the legal aspects of wills, trusts, conservatorships, and elder law. Included is the effect of death upon property ownership, community property and the drafting of forms associated with estate planning. Prerequisites: PARA 101 or equivalent college course with "C" or better.		
PARA 233	Probate Procedures	3
Hours:	3 Lecture/Discussion	
This is an advanced, three-unit, non-repeatable, elective course in the paralegal certificate and is designed to familiarize students with the procedures for probating an estate and for settling non-probate estates. Prerequisites: PARA 101 or equivalent college course with "C" or better.		

PARA 236	Administrative Law	3
Hours:	3 Lecture/Discussion	
This elective course in the paralegal major provides an overview of federal and state substantive and procedural administrative law. Students may elect to focus on immigration law, social security law, worker's compensation law or other specific government agencies. Advisory on Recommended Preparation: PARA 103 or equivalent college course with a grade of "C" or better Prerequisites: PARA 101 or equivalent college course with "C" or better (PARA 101 may be taken concurrently).		

PARA 237	Family Law	3
Hours:	3 Lecture/Discussion	
This is a required course in the paralegal major designed to familiarize the student with California law as it relates to dissolution of marriage. Prerequisites: PARA 101 or equivalent college course with "C" or better.		

PHARMACY TECHNOLOGY

PT 210	Intro to Pharmacy Systems	1
Hours:	1 Lecture/Discussion	
This course introduces the Pharmacy Technician student to pharmacy systems and practices, including job responsibilities and ethics. Advisory on Recommended Preparation: MATH 200 or equivalent college course with a grade of "C" or better		

PT 211	Pharmacology for Pharm Techs	3
Hours:	3 Lecture/Discussion	
The Pharmacy Technician student will learn the use and side effects of drugs commonly used to treat diseases affecting the major body systems. Advisory on Recommended Preparation: MATH 360 or equivalent college course with "C" or better		

PT 212	Pharm Tech Practice 1	1
Hours:	3 Lab	
The Pharmacy Technician student will apply principles of legal standards and quality assurance in preparation of non-compounded products in a lab setting. Advisory on Recommended Preparation: MATH 200 or equivalent college course with a grade of "C" or better, or eligibility for MATH 230 as determined by COS Placement Procedures. Corequisites: PT 210, PT 211.		

PT 220	Pharm Tech Practice 2	2
Hours:	1 Lecture/Discussion 3 Lab	
During this short term class, taken the first half of the second semester, the Pharmacy Technology students will compound nonsterile and sterile products, hazardous products, learn database maintenance of drug distribution, and learn billing of pharmacy goods and services. Prerequisites: PT 210 and PT 211 and PT 212 or equivalent college courses with "C" or better.		

PT 221	Professionalism for Pharm Tech	1
Hours:	1 Lecture/Discussion	
The Pharmacy Technician student will learn about the role of protocols, development of new drug products, and investigational drug products. The student will also learn about pharmacy ethics, professionalism, and organizations. Prerequisites: PT 210 and PT 211 and PT 212 or equivalent college courses with "C" or better.		

PT 222 Pharm Tech Externship 2
 Hours: 7 Lab
 During this course, the Pharm Tech student will complete an externship in a professional pharmacy following policies and procedures that apply to acute, long-term, and ambulatory care practice under the supervision of a licensed pharmacist.
Prerequisites: PT 210 and PT 211 and PT 212 or equivalent college courses with “C” or better.
Corequisites: PT 220, PT 221.

PHILOSOPHY

PHIL 001 Introductory Philosophy 3
 Hours: 3 Lecture/Discussion
Equivalent Course: PHIL 001H.
 Students study the methods and ideas of philosophy. Students write analyses on topics such as the scope and limits of knowledge, the nature of reality, the nature of self, ethics, science, religion, or political theory. (C-ID PHIL100)
Prerequisites: ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS placement procedures.

PHIL 005 Ethics 3
 Hours: 3 Lecture/Discussion
 Ethics is an introduction to theories that answer questions such as “How ought I live?” and “What is best for me and others?” Students will analyze basic ethical theories such as utilitarianism, deontology and virtue ethics and apply these theories to moral problems such as lying, abortion, capital punishment, euthanasia, and world hunger. (C-ID PHIL120)
Prerequisites: ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS placement procedures.

PHIL 012 Comparative Religion 3
 Hours: 3 Lecture/Discussion
 Comparative Religion is an introduction to major religions, including Hinduism, Buddhism, Judaism, Christianity, and Islam. The religions are compared with respect to questions such as What is spiritual? How should I live my life? And What happens after death?
Prerequisites: ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS placement procedures.

PHIL 013 Intro to the Old Testament 3
 Hours: 3 Lecture/Discussion
 The Old Testament (Hebrew Bible) has a rich diversity of literary genres, social contexts and historical settings. It is a foundational text for three major religions. Students analyze the text, times and theological perspectives; the study will not be devotional in character.
Prerequisites: ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS placement procedures.

PHIL 014 Intro to the New Testament 3
 Hours: 3 Lecture/Discussion
 A study of the diverse literary genres, historical background and theological emphases of the New Testament. The course covers different portraits of Jesus, early Christianity and the life of Paul.
Prerequisites: ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS placement procedures.

PHIL 020 Introductory Logic 3
 Hours: 3 Lecture/Discussion
 Examination of the underlying structures of thinking by translating ordinary language into symbols. Students will determine the truth of arguments primarily based on logical structure with some consideration

of informal logic and induction. Advisory on Recommended Preparation: MATH 230 or equivalent college course with “C” or better (C-ID PHIL210)
Prerequisites: ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS placement procedures.

PHIL 025 Critical Thinking 3
 Hours: 3 Lecture/Discussion
 Students will examine the ways people reason, including identification of arguments, misuse of language, common logical errors, and strong deductive and inductive arguments. Students are required to write 6,000 to 8,000 words in several essays to demonstrate critical thinking.
Prerequisites: ENGL 001 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS placement procedures.

PHYSICAL SCIENCE

PSCI 020 Physical Science 4
 Hours: 3 Lecture/Discussion
 3 Lab

A laboratory course in physical science designed to meet the laboratory science requirement for transfer students who are not science majors. Topics include concepts, theories and principles of physics, chemistry, astronomy and earth science. The course provides opportunities for students to learn reasoning skills and a new way of thinking about their environment. Course will present applications of concepts and theories to topics of current interest. Advisory on Recommended Preparation: MATH 200 or equivalent college course with a “C” or better or eligibility for MATH 230 as determined by COS Placement Procedures; and ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 1 determined by COS Placement Procedures.

PHYSICAL THERAPY ASSISTANT

PTA 121 Fundamentals for the PTA 2
 Hours: 2 Lecture/Discussion

This course introduces students to the field of physical therapy by covering the history and values of the American Physical Therapy Association. It covers development of the team approach in specific roles of Physical Medicine and Rehabilitation professionals in the health care system; discusses components of communication among the healthcare team, patients and family members/caretakers; and explores issues such as patient diversity and cultural competence.
 Limitation on Enrollment: Acceptance into the PTA program
Prerequisites: BIOL 030 or BIOL 031 or equivalent college course with “C” or better.

PTA 125 Basic Prin of Patient Mgmt 3
 Hours: 2 Lecture/Discussion
 3 Lab

This lecture and lab course provides training in basic patient management, including bed mobility, transfers, and ambulation training. Course will include Physical Therapy assessments of goniometric range of motion. It will address infection control, isolation precautions, assessment of vital signs, and responses to pain. Course will cover basic documentation skills and documentation for interventions learned in this course. Limitation on Enrollment: Acceptance into the PTA Program
Prerequisites: (BIOL 030 and BIOL 031) or equivalent college courses with “C” or better.

PTA 128 Kinesiology 3
 Hours: 2 Lecture/Discussion
 3 Lab

This course instructs the PTA student in the study of human movement. It is a foundational course exploring the laws of physics and motion and applied anatomy. Students will determine biomechanical forces on the

body. Topics will include musculoskeletal review of origins, insertions, innervations and actions of prime movers. Limitation on Enrollment: Acceptance into the PTA program

Prerequisites: (BIOL 030 and BIOL 031) or equivalent college courses with “C” or better.

PTA 130 Physical Agents and Modalities 3
Hours: 1 Lecture/Discussion
6 Lab

This lecture and skills lab course provides the PTA student with exposure to the duties related to dealing with physical agents, modalities and massage. These applications include the use of cold, heat, ultrasound, diathermy and hydrotherapy. Other modalities include mechanical traction, electro-therapy, compression and laser/light. Basic dressing changes and wound care with the use of universal precautions and infection control are covered. Soft tissue mobilization and therapeutic massage as therapeutic modality are presented. This course has a significant number of laboratory hours and psychomotor learning opportunities. Limitation on Enrollment: Acceptance into the PTA program
Prerequisites: (PTA 125) or equivalent college course with “C” or better.

PTA 131 Engineering & Physics for PTA 1
Hours: 1 Lecture/Discussion

This course is a basic introduction to topics of engineering and physics that are related to the field of physical therapy. Topics include motion, forces, levers, machinery, materials, science, light, sound, electricity and heat. Emphasis will be placed on practical application for the PTA. Advisory on Recommended Preparation: MATH 230 or equivalent college course with “C” or better. Limitation on Enrollment: Acceptance into the PTA Program.

PTA 139 Pathophysiology 2
Hours: 2 Lecture/Discussion

This course presents signs, symptoms and complications of disease states of the body. It covers the nature of diseases and abnormalities of structure and function. The physical, clinical and laboratory presentation of disease process is examined. Limitation on Enrollment: Acceptance to the COS PTA Program

Prerequisites: (PTA 125) or equivalent college course with “C” or better.

PTA 140 Administration 1
Hours: 1 Lecture/Discussion

This course addresses issues facing physical therapist assistants. Topics presented include ethics, values, patient advocacy, personal and career development, access to health care, reimbursement, quality assurance and legal issues.

Prerequisites: (PTA 121) or equivalent college course with “C” or better.

PTA 145 Neurorehabilitation for PTA 3
Hours: 2 Lecture/Discussion
3 Lab

This course instructs the PTA student in the functional activities and rehabilitation procedures relating to the management of the patients with neurological diagnosis. Students will review normal neurodevelopmental sequences as well as developmental delays. The focus of the class is to integrate safe, legal, ethical and effective rehabilitation procedures for neurological patients. This course requires a high level of critical thinking and application, implementation and modification of physical therapy interventions. This class will help the student develop the necessary communication skills needed in the rehabilitation setting. Limitations on Enrollment: Acceptance into the PTA Program

Prerequisites: (PTA 139) or equivalent college course with “C” or better.

PTA 148 Orthopedic Management 3
Hours: 2 Lecture/Discussion
3 Lab

This course instructs the PTA student in the application of kinesiological concepts to the clinical setting and treatment of orthopedic diagnoses. The focus is on safe, legal and ethical use of appropriate therapeutic exercise. Students will learn the physiological responses for orthopedic conditions and management of surgical cases. Limitations on Enrollment: Acceptance into the PTA Program

Prerequisites: PTA 128 or equivalent college course with “C” or better.

PTA 150 Clinical Education 1 3
Hours: 9.5 Lab

This course will involve supervised clinical instruction to observe/participate in the PT/PTA clinical activities. Emphasis will be placed on developing professional behaviors and interpersonal skills. Students will be given the opportunity to practice data collection, therapeutic modalities, transfers, patient positioning, patient instruction, and therapeutic exercise, as well as documentation of measurements and interventions. Students will practice assessment techniques including goniometry, manual muscle testing, and patient functional levels. Skills practiced are dependent on clinical site. This course is the PTA student’s first exposure to clinical education. Clinical course work will include a 4 week clinical course at 40 hours per week at off-site lab instruction. Limitation on Enrollment: Acceptance into the PTA program

Prerequisites: (PTA 121) or equivalent college course with “C” or better.

PTA 152 Cardiopulmonary Rehabilitation 3
Hours: 2 Lecture/Discussion
3 Lab

This course will apply the physiology of body systems as related to various influences such as aging, environmental exposure and pathological dysfunction. Included will be common disease pathways of the cardiovascular and pulmonary systems. The course will also introduce the student to cardiopulmonary fitness and rehabilitation techniques. Limitation on Enrollment: Acceptance into the PTA Program

Prerequisites: (PTA 139) or equivalent college course with “C” or better.

PTA 155 Therapeutic Exercise 4
Hours: 2 Lecture/Discussion
6 Lab

In this course students develop knowledge and skill in the treatment of various conditions. This course includes integration, modification and progression of concepts taught in previous courses in order to perform physical therapy interventions with multiple systems conditions. Integrated principles and application of therapeutic exercise will be reviewed. Specific topics include various motor learning techniques, proprioceptive retraining, balance, spinal stabilization, functional progression for the spine and extremities. Issues pertaining to health and wellness across the lifespan are presented. Limitation on Enrollment: Acceptance into the PTA Program

Prerequisites: (PTA 148) or equivalent college course with “C” or better.

PTA 160 Clinical Education 2 5
Hours: 16 Lab

This course provides the PTA student with full time clinical education experience with application of previously learned techniques and skills in rehabilitation in various clinical settings. The focus is on safe, legal,

ethical and effective use of physical therapy interventions. Focus is on communication skills, interpersonal relationships and professionalism required in the health care setting. Students are expected to assume a greater responsibility in the clinical setting, as they improve their clinical treatment skills. Students will have successfully completed the didactic portion of the curriculum and will make satisfactory progress toward competent and safe entry level PTA skills at the conclusion of this clinical experience. Skills practiced are dependent on the clinical site. Supervision is at the intermediate level provided by the staff of the affiliating institution and coordinated by the Academic Clinical Education Coordinator (ACCE).

Prerequisites: (PTA 145) or equivalent college course with “C” or better.

PTA 161 Clinical Education 3 6
Hours: 18 Lab

This is a seven week, full-time affiliation, where students are given the opportunity to implement therapeutic treatments learned in the academic setting under the supervision of a Physical Therapist. The student will be responsible for patient care compatible to the role of the entry-level PTA utilizing knowledge and skills developed in the program. The student will have an opportunity to advance his/her skills level in the competencies experienced during Clinical Affiliation I and II to an entry-level within the role of the PTA. Students will demonstrate competent and safe entry level PTA skills at the conclusion of this clinical experience.

Prerequisites: (PTA 155) or equivalent college course with “C” or better.

PTA 170 Seminar for PTA 1
Hours: 1 Lecture/Discussion

This course provides the Physical Therapist Assistant (PTA) student with the review of various systems and interventions provided by the PTA. Students will summarize and discuss management and interventions. Also included is the review of how to apply and prepare for the state board PTA licensure examination.

Prerequisites: (PTA 155) or equivalent college course with “C” or better.

PTA 400 PTA Skills Lab 0
Hours: 1 TO 6 Lab

This course provides students additional directed learning and supervised laboratory time to develop and refine range of motion (ROM), manual muscle testing (MMT), transfer and gait activities.

PHYSICS

PHYS 020 General Physics 1 5
Hours: 4 Lecture/Discussion
3 Lab

This is the first semester of a two-semester, introductory, non-calculus based physics course. This course includes laboratory experiments in addition to lectures. It is required for premedical, pre dental, prepharmacy, and occasionally science and math students. Topics include kinematics, statics and dynamics of particles and rigid bodies, simple harmonic motion, and thermal physics. (C-ID PHYS105)

Prerequisites: MATH 154 or equivalent college course with “C” or better or eligibility for MATH 070 as determined by COS placement procedures.

PHYS 021 General Physics 2 5
Hours: 4 Lecture/Discussion
3 Lab

This is the second semester of a two-semester introductory non-calculus based physics course. This course includes laboratory experiments, in

addition to lectures. It is required for premedical, pre dental, prepharmacy, and occasionally science and math students. Topics included are electricity and magnetism, optics, modern and nuclear physics. (C-ID: PHYS 110)

Prerequisites: PHYS 020 or equivalent college course with “C” or better.

PHYS 055 Physics 1: Mechanics & Waves 4
Hours: 3 Lecture/Discussion
3 Lab

This is the first semester of a three semester introductory calculus-based physics course. It is a fundamental treatment of the general principles of physics for those majoring in engineering and physics. Topics included are statics, kinematics, dynamics of particles and rigid bodies, fluids, mechanical waves, simple harmonic motion and kinetic theory of gases. PHYS 5, 6, & 7 are being phased out and replaced with PHYS 55, 56, & 57. Students who begin the 5, 6, 7 sequence should complete the sequence. Students who cannot complete the 5,6,7 sequence must follow the following course sequence: 1) only PHYS 5 completed – start new sequence with PHYS 55; 2) PHYS 5 & 6 completed – start new sequence with PHYS 56; 3) If PHYS 5, 6 & 7 completed students may benefit by taking PHYS 57 depending on the university and program to which the student plans to transfer. If PHYS 6 completed registration in PHYS 55 not permitted; if PHYS 7 completed registration in PHYS 56 not permitted. (If student has completed PHYS 5, 6, and/or 7 and wants to register for PHYS 55, 56, or 57 s/he should consult the Science Department before registration). (C-ID PHYS205)
Prerequisites: MATH 065 and MATH 066 or equivalent college courses with “C” or better (MATH 066 may be taken concurrently).

PHYS 056 Physics 2: E&M and Heat 4
Hours: 3 Lecture/Discussion
3 Lab

This is the second semester of a three semester introductory calculus-based physics course. It is a fundamental treatment of the general principles of Physics for those majoring in physics and engineering. Topics included are electricity, magnetism, the laws of thermodynamics, heat engines, and entropy. PHYS 5, 6, & 7 are being phased out and replaced with PHYS 55, 56, & 57. Students who begin the 5, 6, 7 sequence should complete the sequence. Students who cannot complete the 5,6,7 sequence must follow the following course sequence: 1) only PHYS 5 completed – start new sequence with PHYS 55; 2) PHYS 5 & 6 completed – start new sequence with PHYS 56; 3) If PHYS 5, 6 & 7 completed students may benefit by taking PHYS 57 depending on the university and program to which the student plans to transfer. If PHYS 6 completed registration in PHYS 55 not permitted; if PHYS 7 completed registration in PHYS 56 not permitted. (If student has completed PHYS 5, 6, and/or 7 and wants to register for PHYS 55, 56, or 57 s/he should consult the Science Department before registration). (C-ID PHYS210)
Prerequisites: PHYS 055 and MATH 067 or equivalent college courses with “C” or better (MATH 067 may be taken concurrently).

PHYS 057 Physics 3: Modern Physics 5
Hours: 4 Lecture/Discussion
3 Lab

This is the third semester of a three-semester introductory calculus-based physics course. It is a fundamental treatment of the general principles of Physics for those majoring in physics and engineering. Topics included are Geometric and Wave optics, Special Relativity, Lorentz Transformation, Quantum Theory of Atoms, Fission and Fusion, and the Evolution of the Universe. PHYS 5, 6, & 7 are being phased out and replaced with PHYS 55, 56, & 57. Students who begin the 5, 6, 7 sequence should complete the sequence. Students who cannot complete the 5,6,7 sequence must follow the following course sequence: 1) only PHYS 5 completed – start new sequence with PHYS 55; 2) PHYS

5 & 6 completed – start new sequence with PHYS 56; 3) If PHYS 5, 6 & 7 completed students may benefit by taking PHYS 57 depending on the university and program to which the student plans to transfer. If PHYS 6 completed registration in PHYS 55 not permitted; if PHYS 7 completed registration in PHYS 56 not permitted. (If student has completed PHYS 5, 6, and/or 7 and wants to register for PHYS 55, 56, or 57 s/he should consult the Science Department before registration). (C-ID PHYS215)
Prerequisites: PHYS 056 and MATH 067 or equivalent college courses with “C” or better.

PLANT SCIENCE

PLSI 001 Intro to Plant Science 3
 Hours: 3 Lecture/Discussion
 1 Lab

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. (C-ID AG-PS106L)

PLSI 012 Introduction to Fruit Science 3
 Hours: 3 Lecture/Discussion
 1 Lab

The botany, taxonomy, and development of major fruit, vine, and nut crops in California, including variety selection, production practices including site selection establishment, fertilization, pollination, irrigation, harvest, storage, processing, marketing, pest management, and pruning. Laboratory required. Advisory on Recommended Preparation: PLSI 001 or equivalent college course with “C” or better.

PLSI 105 Weeds and Poisonous Plants 3
 Hours: 3 Lecture/Discussion
 1 Lab

The study of the classification, identification, and life cycle of common and poisonous weeds in California production areas and their effects on animals and man including management practices such as prevention, mechanical, biological, and chemical methods. Weed establishment and chemical resistance are also discussed. Laboratory required.

PLSI 106 Fertilizers & Soil Amendments 3
 Hours: 3 Lecture/Discussion
 1 Lab

Equivalent Course: AG 105.

The study of the composition, value, selection, and use of fertilizer materials and soil amendments within the context of soil, plant, and fertilizer relationships, including current application practices. Laboratory required.

PLSI 108 Water Management 3
 Hours: 3 Lecture/Discussion
 1 Lab

The principles and practices of California water delivery including: plant-soil-moisture relationships and water movement in the soil; water quality, water law, measurement of water; evaluation of irrigation methods, systems, wells and pumps. Laboratory required. Advisory on Recommended Preparation: AG-004 or equivalent college course with “C” or better

PLSI 110 Integrated Pest Management 3
 Hours: 3 Lecture/Discussion
 1 Lab

The origin, history, and management measures for insect, plant pathogen, weed, and other pests of field crops; pest biology and life cycles are studied to demonstrate the use of various Integrated Pest Management

(IPM) technologies for economic crop production. Pesticide regulations, application, formulations, and materials for specific uses are covered. Laboratory required. Advisory on Recommended Preparation: PLSI 001 or equivalent college course with “C” or better or equivalent knowledge and/or skills as determined by departmental assessment

PLSI 111 Citrus Production 3
 Hours: 2.5 Lecture/Discussion
 1.5 Lab

This course focuses on the economic importance of the citrus industry. Topics include: historical development, areas of production, environmental requirements and citrus climatology, citrus botany, commercial varieties and rootstocks. Orchard planning and development and cultural practices are also covered in a laboratory setting.

PLSI 113 Introduction to Viticulture 3
 Hours: 3 Lecture/Discussion
 1 Lab

An introduction to viticulture including grape growing, history, distribution, biology, anatomy, propagation, cultivated varieties, rootstocks, climate, vineyard practices, common diseases and pests. Advisory on Recommended Preparation: PLSI 001 or equivalent college course with “C” or better

POLICE SCIENCE

PS 200M1 Basic Police Academy, Module 1
14 (Fall 2016)
13.5 - 17 (Spring 2017)

Hours: 7 Lecture/Discussion
 21.75 Lab

Materials Fee: \$49.00

Equivalent Course: AJ 200M3.

This is the third module of a three-module series leading to completion of the Basic Police Academy. Students who complete this module may be appointed as a Peace Officer or Level 1 Reserve Peace Officer. This module will provide advanced training in such skill areas as firearms, arrest and control techniques, preliminary investigation, investigative report writing, emergency vehicle operations, and traffic enforcement. Exercise and scenario testing are prominent in this module. Because this course requires strenuous running, lifting, reaching, falling and range of motion activities, students should be free of any medical or physical conditions which could be aggravated by participating in the course. Students must participate fully in order to successfully complete the course.

Prerequisites: PS 200M2 or equivalent college course with “C” or better.

PS 200M2 Basic Police Academy, Module 2
9 (Fall 2016)
8.5 - 11.5 (Spring 2017)

Hours: 5.5 Lecture/Discussion
 10.5 Lab

Materials Fee: \$8.00

Equivalent Course: AJ 200M2.

This is the second module of a three-module series leading to completion of the Basic Police Academy. Students who complete this module may be appointed as Level II Reserve Peace Officers. This module will provide advanced training in California criminal law, search and seizure, presentation of evidence; and intermediate-level training in firearms, arrest and control techniques, and investigative report writing. Because this course requires strenuous running, lifting, reaching, falling and range of motion activities, students should be free of any medical or physical conditions which could be aggravated by participating in the course. Students must participate fully in order to successfully

complete the course.

Prerequisites: PS 200M3 or equivalent college course with "C" or better.

PS 200M3 Basic Police Academy, Module 3 **5.5 (Fall 2016)**
6 - 7.5 (Spring 2017)

Hours: 3 Lecture/Discussion
7.5 Lab

Materials Fee: \$10.00

Equivalent Course: AJ 200M1.

This is the first module of a three-module series leading to completion of the Basic Police Academy. This module will provide basic training in such skill areas as firearms, arrest & control techniques, preliminary investigation, investigative report writing, emergency vehicle operation, and traffic enforcement. Students must participate fully in order to successfully complete the course. Limitation on Enrollment: Passing score on POST Entry Level Reading and Writing Test; High School diploma or GED; No felony convictions; Valid California Driver's License; Recent medical clearance by a licensed physician; Fingerprint clearance from the California Department of Justice; Possession of all required equipment, uniforms, supplies and materials; Payment of all enrollment, material and subsidiary fees.

PS 208 PC 832 (Non Firearms) **2**

Hours: 2 Lecture/Discussion
.5 Lab

Materials Fee: \$38.00

Equivalent Course: AJ 208, AJ 208AD.

Designed to satisfy the curriculum standards of the Commission on Peace Officers' Standards and Training (POST) as required by Penal Code Section 832. Topics include: Professional Orientation, California Criminal Law, Rules of Evidence, Laws of Arrest, Use of Force and Community Relations. This course is mandated by state law for persons in diverse peace officer classifications not requiring the carrying of firearms.

PS 209 PC 832/Agency Firearms **.5**

Hours: 1.5 Lab

Materials Fee: \$8.00

Equivalent Course: AJ 209, AJ 209AD.

Designed to satisfy the curriculum requirements of the California Commission on Peace Officers' Standards as required by Penal Code section 832. This course is required for probation officers, correctional officers and diverse other peace officer classifications whose jobs require the carrying of a sidearm. Topics include: firearms safety, care and cleaning of sidearms, and sidearm shooting and combat principles. The final session involves qualifying with a sidearm at the firearms range. Students must provide sidearms, ammunition carrier and holster.

PS 310 Police Academy Orientation **2**

Hours: 2 Lecture/Discussion
.5 Lab

Materials Fee: \$24.00

This course is a prerequisite to PS200M3, the first module of the Basic Police Academy. The intent of this course is to help students understand the requirements of the Police Academy program, as well as prepare for and complete the written and physical agility testing required for entrance into the Basic Police Academy.

PS 313 Basic Academy Preparation **3**

Hours: 3 Lecture/Discussion

Materials Fee: \$10.00

Equivalent Course: AJ 313.

This course stresses the integration of reading, writing, and study skills with concepts of cultural awareness and law enforcement professional

values and ethics. The intent of this course is to assist students with developing the requisite skills for entering and completing the Basic Training Academy (PS 200).

POLITICAL SCIENCE

POLS 005 Federal, State and Local Govt **3**

Hours: 3 Lecture/Discussion

Equivalent Course: GOVT 005, GOVT 005H.

An introduction to the principles and problems of national, state, and local government with particular emphasis on the Constitution of the United States and the state and local government of California. (C-ID :POLS110)

Prerequisites: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures.

POLS 006 Comparative Politics **3**

Hours: 3 Lecture/Discussion

Equivalent Course: GOVT 006.

A comparative analysis of different kinds of political systems, including their history, political institutions, processes and policies, the environments in which they occur, and their consequences. Also included in this course is an analysis of the dynamics of political change and its relationship to economic and social development. (C-ID POLS130)

Prerequisites: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures.

POLS 008 International Relations **3**

Hours: 3 Lecture/Discussion

Equivalent Course: POLS 108.

This course is a study of relations among nations including the function of power, diplomacy, international law and organizations and economic factors. Special emphasis will be placed on such concepts as war, nationalism, imperialism, ideological conflict and collective security and how these concepts affect American foreign policy. (C-ID POLS140)

Prerequisites: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures.

POLS 010 California Govt and Politics **1**

Hours: 1 Lecture/Discussion

Equivalent Course: GOVT 110, POLS 110.

Introduction to the structure and function of California state government. Satisfies California state and local government requirement for students who have taken Federal, State, and Local Government without a California component or who receive Advanced Placement credit for American Government.

Prerequisites: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS placement procedures.

PORTUGUESE

PORT 001 Beginning Portuguese **4**

Hours: 4 Lecture/Discussion

Equivalent Course: PORT 101.

This introductory course covers understanding, speaking, reading, and writing Portuguese and is designed for students transferring to four-year universities with foreign language requirements. It is also useful for students interested in bilingual education or any field which involves Portuguese.

PORT 002 Elementary Portuguese **4**

Hours: 4 Lecture/Discussion

Equivalent Course: PORT 102.

PORT 2 is the second course in this series. It reviews the vocabulary and concepts of PORT 1 as a starting point. The students will engage

with each other and the instructor in a variety of communication-based activities. Cultural and societal aspects of the Portuguese world are stressed throughout the class.

Prerequisites: PORT 001 or equivalent college course with “C” or better.

PSYCHOLOGY

PSY 001 General Psychology 3
Hours: 3 Lecture/Discussion

Equivalent Course: PSY 001H.

This course is an introduction to the field of psychology through a study of the facts and principles involved in learning, development, motivation, personality, adjustment, and the physiological basis of behavior. The basic concepts presented include: biological bases of behavior, perception, cognition and consciousness, learning, memory, emotion, motivation, development, personality, social psychology, psychological disorders, therapeutic approaches, applied psychology, as well as the scientific methods. Particular emphasis is placed on those concepts that relate to an understanding of human behavior. (C-ID PSY110)

Prerequisites: ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS placement procedures.

PSY 005 Social Psychology 3
Hours: 3 Lecture/Discussion

This course considers individual human behavior in relation to the social environment. The power of the situation, other individuals, and the social group will be examined. Emphasized topics include: social cognition, person perception, cultural norms, gender roles, attitudes and attitude change, prejudice and stereotypes, aggression, interpersonal attraction, conformity and social influence, prosocial behavior, and group phenomena. (C-ID PSY170)

Prerequisites: (PSY 001) and (ENGL 251 or equivalent college courses with “C” or better or eligibility for ENGL 1 as determined by COS placement procedures.

PSY 010 Human Sexuality 3
Hours: 3 Lecture/Discussion

A comprehensive introduction to the biological, psychological and social-cultural aspect of human sexuality, including thoughts, feelings and behaviors. Provides a solid basis of sexual anatomy and physiology, with an emphasis on how psychological, emotional and social-cultural factors may affect sexual expression and function. (C-ID PSY130)

Prerequisites: PSY 001 or equivalent college course with “C” or better.

PSY 029 Research Methods 4
Hours: 3 Lecture/Discussion
3 Lab

Equivalent Course: PSY 129.

This course provides an overview of the methodologies used in experimental, quasi-experimental and non-experimental research in psychology. Students will learn how to design and conduct research, including formulating hypotheses, reviewing the literature, evaluating ethical issues, selecting methodologies, organizing data, applying statistics and writing reports. (C-ID PSY205B)

Prerequisites: (MATH 021 or SSCI 025) and PSY 001 or equivalent college courses with “C” or better.

PSY 034 Abnormal Psychology 3
Hours: 3 Lecture/Discussion

This course is designed to present a broad general survey of the field of abnormal psychology. It utilizes the many theoretical views of psychopathology in human behavior in order to explore the nature and development of these deviations, with primary consideration given to

neurotic and psychotic behavior. (C-ID PSY120)

Prerequisites: (PSY 001) and (ENGL 251 or equivalent college courses with “C” or better or eligibility for ENGL 1 as determined by COS placement procedures.

PSY 130 Intro Behavior Modification 3
Hours: 3 Lecture/Discussion

Designed for teachers, paraprofessionals, and those pursuing a career in psychology. Students will develop skills in assessing behavior, developing target behaviors and implementing a behavior change program. This course combines both the theoretical and practical models for understanding human behavior.

Prerequisites: PSY 001 or equivalent college course with “C” or better.

PSY 133 Personal and Social Growth 3
Hours: 3 Lecture/Discussion

This is a course for students to apply concepts of psychology to enhance self-understanding and improve interpersonal relations. Students will learn the relation of psychological concepts to physical and mental health. Finally, the students will consider the attainment of educational, vocational and relationship goals. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with a “C” or better, or eligibility for ENGL 1 determined by COS Placement Procedures (C-ID PSY115)

SOCIAL SCIENCE

SSCI 025 Statistics - Social Sciences 4
Hours: 4 Lecture/Discussion

Equivalent Course: SSCI 125.

The course offers an introduction to the appropriate use of statistical techniques across a wide variety of disciplines including the use of probability, hypothesis testing, and predictive techniques to facilitate decision-making. Other topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. The role of quantitative methods in social science research is emphasized. (C-ID SOC125 or C-ID MATH110)

Prerequisites: (MATH 230 or equivalent college course with “C” or better or eligibility as determined by COS placement procedures.

SSCI 036 Introduction to Aging 3
Hours: 3 Lecture/Discussion

Equivalent Course: SSCI 136.

An introductory course covering topics in gerontology/aging, demographics, theories, concepts, perspectives, and research, including biophysical, psychosocial, cultural, political, and ethnic topics which impact individuals, families, and society. Approved for Distance Learning format.

SSCI 050 Street Law: Intro to Legal Iss 3
Hours: 3 Lecture/Discussion

Equivalent Course: SSCI 150.

This course is an interdisciplinary exploration of themes such as equality, citizenship, participation, access, and social justice. Students will examine legal structures and limits in democracy and look at the idea of democracy as a universal value. This course will cover the evaluation, debate, and critical analysis of legal issues that affect individuals, their families, and communities. Students will learn about practical aspects of civil, criminal, constitutional, family, immigration, and consumer law in a diverse society with an orientation toward civic involvement in the local community. Advisory on Recommended Preparation: POLS 005 or equivalent college course with “C” or better

SOCIOLOGY

SOC 001 Introduction to Sociology 3

Hours: 3 Lecture/Discussion

Equivalent Course: SOC 001H.

Sociology 1 is an introductory study covering basic concepts, principles, methods, and theoretical perspectives of sociology. Topics include culture, personality, social inequality, diversity, institutions, population and ecology, and social change. Course objectives include the ability to apply sociological principles to everyday life. Approved for Distance Learning format. (C-ID SOCI110)

Prerequisites: ENGL 251 or ENGL 261 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS placement procedures.

SOC 002 Social Problems 3

Hours: 3 Lecture/Discussion

An identification and analysis of contemporary social problems including (1) the role of power and ideology in the definition of social problems, (2) their causes and consequences, (3) evaluations of proposed solutions, and (4) methods of intervention. Topics will vary. (C-ID SOCI115)

Prerequisites: ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS placement procedures.

SOC 005 Rural Sociology 3

Hours: 3 Lecture/Discussion
1 Activity

Equivalent Course: SOC 105.

The course is designed to introduce the student to key aspects of contemporary rural society in developed countries with an emphasis on the United States and Europe. It is also designed to introduce students to the broad subdiscipline of rural sociology. This course provides a substantially broader understanding of the conditions and trends confronting rural society beyond the stereotypes associated with rural people and places. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS Placement Procedures

SOC 010 Sociology of Gender 3

Hours: 3 Lecture/Discussion

Equivalent Course: SOC 110.

This course explores the social construction of feminine and masculine identities both historically and in cross-cultural contexts and explores both the macro sociological understanding of gender as well as the micro level analysis of how individuals “do” gender. It analyzes the impact of economic and political change on gender expectations and practices. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID SOCI140)

SOC 026 Marriage and Family Life 3

Hours: 3 Lecture/Discussion

A sociological analysis of the family, including historical and recent changes, present nature and the socio-cultural and economic forces shaping these changes. Including this analysis, the following topics will be covered: dating and mate-selection, communication conflict resolution, dual career families, human sexuality, family planning, parenthood, divorce and remarriage, changing gender roles and family economics. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS Placement Procedures (C-ID SOCI130)

SOC 043 Sociology of Deviance 3

Hours: 3 Lecture/Discussion

Equivalent Course: SOC 143.

Students in this course will examine rule breaking behavior and society’s responses to it. The course considers deviance as a social phenomenon, cause, consequences and methods of social control. Advisory on Recommended Preparation: ENGL 251 or ENGL 261 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS Placement Procedures

SPANISH

SPAN 001 Beginning Spanish 4

Hours: 4 Lecture/Discussion

SPAN 1 is an introductory course in understanding, speaking, reading, and writing Spanish. This course meets the foreign language requirement for transfer to many universities. It is also useful for students interested in bilingual education or any area that involves Spanish. (C-ID SPAN100)

SPAN 002 Elementary Spanish 4

Hours: 4 Lecture/Discussion

Equivalent Course: SPAN 022.

SPAN 2 is the second course in a four-course series. This course meets the foreign language requirement for transfer to many four-year universities. It reviews the vocabulary and concepts of SPAN 1 as a starting point. The students will engage with each other and the instructor in a variety of communication-based activities. Cultural and societal aspects of the Hispanic world are stressed throughout the class. (C-ID SPAN110)

Prerequisites: SPAN 001 or equivalent college course with “C” or better.

SPAN 003 Intermediate Spanish 4

Hours: 4 Lecture/Discussion

Equivalent Course: SPAN 023.

SPAN 3 is the third course in a four-course series. This course can meet the foreign language requirement for transfer to many four-year universities. It teaches students to communicate at a sophisticated level, both orally and in writing. It builds on concepts learned in SPAN 1 and 2. It also improves students’ reading abilities and elicits dialogue on cultural topics. (C-ID SPAN200)

Prerequisites: SPAN 002 or equivalent college course with “C” or better.

SPAN 004 Advanced Spanish 4

Hours: 4 Lecture/Discussion

SPAN 4 is the most advanced course in this four-course series. This course can meet the foreign language requirement for transfer to many four-year universities. It reviews the vocabulary and concepts learned in SPAN 1, 2, and 3. The students will engage with each other and the instructor in a variety of communication-based activities such as interviews, oral reports, writing newspaper articles, role playing, singing songs or reciting poetry, playing games, making videos, as well as writing and grammar exercises. Cultural and societal aspects of the Hispanic world are stressed throughout the class. Students will exit the class speaking, reading, writing and understanding Spanish fluently. (C-ID SPAN210)

Prerequisites: SPAN 003 or equivalent college course with “C” or better.

SPAN 012	Hispanic Literature	3
Hours:	3 Lecture/Discussion	
A study, in Spanish, of Hispanic literature from the beginning of the 20th century to the present. Poetry, short stories, plays, essays, and novels cover a wide spectrum of interpretation of Hispanic life and culture.		
Prerequisites: SPAN 004 or equivalent college course with “C” or better.		
SPAN 022	SPAN 2 for Spanish Speakers	4
Hours:	4 Lecture/Discussion	
Equivalent Course: SPAN 002.		
This course is equivalent to SPAN 2, although more emphasis is placed on reading and writing for the native speaker. It is designed to improve the written and oral communication skills of Spanish-speaking students. (C-ID SPAN220)		
SPAN 023	Span 3 for Spanish Speakers	4
Hours:	4 Lecture/Discussion	
Equivalent Course: SPAN 003.		
A continuation of SPAN 22. This course is for the native speakers who wish to improve their written and oral communication skills. It is equivalent to SPAN 3. (C-ID SPAN230)		
Prerequisites: SPAN 022 or equivalent college course with “C” or better.		
SPAN 280	Interpreter Written Exam Prep	1
Hours:	1 Lecture/Discussion	
This course, taught in English, assists students preparing for the written portion of the California Court Interpreter written exam for all languages. Ethics and professional requirements are covered as well as strategies for preparing for the exam.		
SPAN 281	Spanish Interpreting Skills	3
Hours:	3 Lecture/Discussion	
Equivalent Course: SPAN 281AC, SPAN 281AD.		
This Spanish course prepares students for the oral portion of the State Certification Exam for Court Interpreters. Instruction and practice in consecutive interpreting, sight translation, and simultaneous interpreting from Spanish to English and English to Spanish is included.		
SPAN 282	Spanish Legal/Medical Terms	3
Hours:	3 Lecture/Discussion	
Equivalent Course: SPAN 180.		
This course provides a foundation for translating medical and legal terminology from English to Spanish. Emphasis is placed on translating non-technical explanations of medical and legal terminology, including the fundamentals of dividing terms into their structural elements.		

SPORTS MEDICINE

SMED 040	Intro to Sports Injuries	3.5
Hours:	3 Lecture/Discussion 1.5 Lab	
This course is open to all students interested in the prevention, care and treatment of sports injuries. The subject matter covers the responsibilities of professional development of the athletic trainer, emergency procedures, mechanisms, characteristics, and evaluation of sports injuries, as well as their acute care. SMED 40 includes the partial regulations and requirements of the National Athletic Trainer’s Association for transfer to a four year institution and certification. Advisory on Recommended Preparation: ENGL 251 or ENGL 261 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS Placement Procedures		

SMED 060	Concepts in Health & Fitness	3
Hours:	3 Lecture/Discussion	

Equivalent Course: HW 060.

This course is open to all students interested in learning about the different components of physical fitness, cardiovascular endurance, muscular strength, muscular endurance, flexibility, and body composition as related to healthy living. Students will develop individual plans using decision-making strategies, analysis, and an awareness of the conditions related to nutrition, physiological factors and physical fitness. Advisory on Recommended Preparation: ENGL 251 or ENGL 261 or equivalent college course with “C” or better or eligibility for ENGL 1 as determined by COS Placement Procedures

SMED 151	Lower Extremities Assessment	2
Hours:	1 Lecture/Discussion 3 Lab	

Provides in-depth study and eventual mastery of the knowledge and skills necessary for certified athletic trainers to recognize and assess injuries to the lower extremities (hip, lumbar spine, pelvis, knee, ankle, and foot). To be successful in this course, students must synthesize information presented in the lecture and laboratory and apply it to the clinical setting. Specifically, this means that studying for quizzes and tests should involve reviewing and integrating the essential ideas contained in both the lectures and the textbook. Advisory on Recommended Preparation: SMED 040 and HW 003 or equivalent college courses with “C” or better

SMED 152	Lower Extremities Rehab.	2
Hours:	1 Lecture/Discussion 3 Lab	

This course will introduce the student to the therapeutic exercise domain of athletic training. Emphasis will be placed on fundamental principles governing therapeutic exercise and introduce application of the different therapeutic exercise techniques for the lower extremities in athletic training. Advisory on Recommended Preparation: SMED 040 or equivalent college course with “C” or better

SMED 153	Upper Extremities Assessment	2
Hours:	1 Lecture/Discussion 3 Lab	

Provides in-depth study and eventual mastery of the knowledge and skills necessary for certified athletic trainers to recognize and assess injuries to the upper extremity (spine – cervical, thoracic, lumbar, shoulder, elbow, wrist, hand, and fingers). To be successful in this course, students must synthesize information presented in the lecture and laboratory and apply it to the clinical setting. Specifically, this means that studying for quizzes and tests should involve reviewing and integrating the essential ideas contained in both the lectures and the textbook. Advisory on Recommended Preparation: SMED 040 and HW 003 or equivalent college courses with “C” or better

SMED 154	Upper Extremities Rehab.	2
Hours:	1 Lecture/Discussion 3 Lab	

This course will introduce the student to the therapeutic exercise domain of athletic training. Emphasis will be placed on fundamental principles governing therapeutic exercise and introduce application of the different therapeutic exercise techniques for the upper extremities in athletic training. Advisory on Recommended Preparation: SMED 040 or equivalent college course with “C” or better

SMED 181	Athletic Training Clinical 1	2
Hours:	6 Lab	

Organization and administration of athletic training room in a clinical

practicum college setting including athletic training room management, staffing, policies and procedures, record keeping and data bases, emergency care planning, legal issues, fluid replacement, medical terminology, and public relations. Advisory on Recommended Preparation: SMED 040 or equivalent college course with "C" or better

SMED 182 Athletic Training Clinical 2 2
Hours: 6 Lab

A clinical practicum course provides the athletic training student with the knowledge and skills necessary to recognize and manage sport trauma and sports-associated illness. This course will prepare students to assist in sustaining life following traumatic injury, reducing pain, and minimizing the consequences of injury or sudden illness in the athletic college setting under the supervision and assistance of a Certified Athletic Trainer. Advisory on Recommended Preparation: SMED 040 or equivalent college course with "C" or better

SMED 183 Athletic Training Clinical 3 2
Hours: 6 Lab

A clinical practicum course provides the athletic training student clinical experience in athletic training room within the college setting. Emphasis will be placed on taping, padding, bracing, splinting, protective equipment and the care of athletes with acute and chronic athletic conditions. The skills will be developed under the supervision and assistance of a Certified Athletic Trainer. Advisory on Recommended Preparation: SMED 040 or equivalent college course with "C" or better

SMED 184 Athletic Training Clinical 4 2
Hours: 6 Lab

This clinical practicum course will allow the athletic training student the opportunity to experience a hands-on-approach, working under the supervision and assistance of a Certified Athletic Trainer in a college setting. Emphasis will be placed on recognition, acute management, and evaluation of athletic injuries. Advisory on Recommended Preparation: SMED 040 or equivalent college course with "C" or better

VETERINARY TECHNICIAN

VT 109 Intro to Veterinary Technology 3
Hours: 2.5 Lecture/Discussion
1.5 Lab

An introductory course for students interested in the field of veterinary technology. Designed to give students hands-on experience with domestic, farm and laboratory animals.

VT 118 Comparative Anatomy/Physiology 4
Hours: 3 Lecture/Discussion
3 Lab

This course is designed to emphasize animal structures and functions that apply to procedures commonly employed in the practice of veterinary medicine. Students will perform dissections on a variety of animal preparations to further illustrate the similarities and differences in structures.

Prerequisites: (BIOL 022 and VT 109) or equivalent college courses with "C" or better.

VT 120 Parasitology 3
Hours: 2.5 Lecture/Discussion
1.5 Lab

This course will cover the types, life cycles, diagnosis and control of parasites that infect and infest animals. Both internal and external parasites will be covered.

VT 121 Large Animal Diseases 3
Hours: 2 Lecture/Discussion
3 Lab

This course will cover the role of Veterinary Technician as an aid to the veterinarian in the diagnosis and treatment of infectious and non-infectious disease of large and domesticated animals.

Prerequisites: VT 109 and VT 118 or equivalent college courses with "C" or better.

VT 123 Exotic Animal Care 2
Hours: 2 Lecture/Discussion

A foundation course designed to introduce students to basic concepts of exotic animal care. Topics include breed identification, nutrition, principles of sanitation and disinfection, social and reproductive patterns, and common disease problems of selected species.

Prerequisites: VT 109 and VT 118 or equivalent college courses with "C" or better.

VT 124 Pharmacology 3
Hours: 3 Lecture/Discussion

To emphasize the basic mechanisms of disease and veterinary therapeutics. The broader principles of pathology are applied toward a study of the more common animal diseases and the pharmacological agents to treat them.

Prerequisites: VT 109 and VT 118 or equivalent college courses with "C" or better.

VT 216 Veterinary Office Practices 2
Hours: 2 Lecture/Discussion

Equivalent Course: VT 116.

This course is designed to teach the skills that are necessary to operate the veterinary business office. Client communications, routine vaccinations, and preventative medicine procedures will be covered.

Prerequisites: VT 109 or equivalent college course with "C" or better.

VT 217 Practical Animal Nursing 2
Hours: 1 Lecture/Discussion
3 Lab

A course designed to help students develop the knowledge and skills required in the veterinary profession. Lecture and laboratory sessions provide opportunities to develop practical skills in various types of animal nursing scenarios.

Prerequisites: VT 118 and VT 216 or equivalent college courses with "C" or better.

VT 230 Veterinary Tech Proficiency 1
Hours: 1 Lecture/Discussion

A review course for students who have completed the sequence of courses in the Veterinary Technician Program. The course is designed to assist students in organizing review materials in preparation to take the California State Board Exam.

Prerequisites: VT 122 and VT 125 and VT 127 or equivalent college courses with "C" or better.

WELDING

WELD 104 Metal Sculpture 3
Hours: 3 Lecture/Discussion
1 Lab

Materials Fee: \$20.00

This course in metal sculpture is designed to develop awareness, knowledge, and skills regarding historical and contemporary three dimensional design concepts on a beginning level. The emphasis is on personal expression through a variety of metals and a wide range of possible applications.

WELD 105	Metalcraft Welding/Forging	3	<p>Hours: 3 Lecture/Discussion 1 Lab</p> <p>Materials Fee: \$15.00</p> <p>Equivalent Course: ART 105, ART 105AC, WELD 105AC.</p> <p>Instruction in metalcraft welding and forging techniques, basic tools for welded craft projects and sculpture, theory of abstract shapes and designs, plus principles of using various metal types will introduce the concepts of metal craft welding.</p>
WELD 107	Forging and Wrought Iron	2	<p>Hours: 2 Lecture/Discussion 1 Lab</p> <p>Materials Fee: \$15.00</p> <p>Equivalent Course: WELD 106, WELD 106AC, WELD 106AD.</p> <p>WELD 107 offers the student both theory and concepts, in addition to the application of artistic metal working. Both the practical and the abstract notions of working hot metal and forging as they are applied to iron sculptures will be covered.</p>
WELD 161	Oxyacetylene Welding	4	<p>Hours: 3 Lecture/Discussion 3 Lab</p> <p>Introduction to the concepts and interpretation of principles of oxyacetylene welding, braze welding, brazing soldering, flame spraying and flame cutting of common ferrous and non-ferrous sheet, plate and pipe. Properties of ferrous materials and principles of destructive testing of welded materials complete the program.</p>
WELD 162	Shielded Metal Arc Welding	4	<p>Hours: 3 Lecture/Discussion 3 Lab</p> <p>Introduction to the theory and concepts as applied to shielded metal arc welding. Introduction to modern solid shield technology and ferrous filler metals. Students will learn the theory of ferrous metallurgy and its application to shielded metal arc welding. Once students understand the theory and concepts of shielded metal arc welding, they will move into the application of the principles of position and out of position welding.</p>
WELD 171	Specialty Metals Welding	4	<p>Hours: 3 Lecture/Discussion 3 Lab</p> <p>The course applies the basic concepts of science to welding specialty metals and non-destructive testing. Theory of electricity, magnetism, atomic structure, and thermodynamics, as used by technicians, are topics covered in this course.</p>
WELD 172	Gas Tungsten Arc Welding	4	<p>Hours: 3 Lecture/Discussion 3 Lab</p> <p>Introduction to the theory and concepts as applied to gas tungsten arc welding. Introduction to modern shielding gas technology, non-ferrous filler metals. Students will learn the theory of ferrous metallurgy and its application to destructive testing of welded materials.</p>
WELD 175	Metal Working for Engineers	2	<p>Hours: 2 Lecture/Discussion 1 Lab</p> <p>Equivalent Course: WELD 175AB.</p> <p>This course is designed to offer the engineering student the opportunity to learn concepts and principles and to apply them to the basic skills of the welder. Oxyfuel, shielded Metal Arc and Gas Metal Arc Welding basics will be covered.</p>
WELD 181	Blueprint Reading/Metallurgy	3	<p>Hours: 3 Lecture/Discussion</p> <p>This course combines the fundamental concepts and theories of blueprint reading relating to the concepts, as well as the application, of welded assemblies. The theory of ferrous metal identification and the concept of preparation of metal samples for identification prepares students entering the fabrication, construction or welding engineering fields.</p>
WELD 265	Welding Upgrade	1 - 4	<p>Hours: 1 TO 3 Lecture/Discussion 1 TO 3 Lab</p> <p>Equivalent Course: WELD 264AD.</p> <p>An open entry, open exit course in specific metal joining processes. Various fusion processes will be demonstrated and can be practiced for proficient skill level by students.</p>
WELD 273	Stainless Steel Weld/Repair	4	<p>Hours: 3 Lecture/Discussion 3 Lab</p> <p>Equivalent Course: WELD 173.</p> <p>This course is designed to give welding students training in the practice, theory, and skill of welding stainless steel. Both repair and fabrication, as well as concepts to sanitary tube welding and fabrication, will be covered.</p>
WELD 274	Aluminum Welding	4	<p>Hours: 3 Lecture/Discussion 3 Lab</p> <p>The course is designed to give welding students training in the practice, theory and skill in the welding of aluminum, both repair and fabrication, as well as application to all structural shapes and levels of alloys.</p>
WELD 275	Welding Codes/Certification	4	<p>Hours: 3 Lecture/Discussion 3 Lab</p> <p>Equivalent Course: WELD 174AB, WELD 275AB.</p> <p>This welding course is for students to perform certification weldments. American Welding Society certifications will be awarded to students who successfully complete the course. Industry standards and principles of inspection criteria will be covered.</p>
WELD 276	Metal Fabrication	3	<p>Hours: 3 Lecture/Discussion 1 Lab</p> <p>Materials Fee: \$20.00</p> <p>Equivalent Course: WELD 176AD, WELD 276AC.</p> <p>This course is designed for the students to develop the concepts and apply the theories of the skills of a welder fabricator. This is a project-based course that will introduce students to the abstraction of design, layout, pricing and construction of metal projects.</p>
WELD 277	Industrial Piping Systems	4	<p>Hours: 3 Lecture/Discussion 3 Lab</p> <p>The modern welding industry serves a multitude of industrial applications. One of the largest of these is the welding of piping systems. This class will introduce students not only to the welding of pipes, but also pipe fitting and all entry-level pipe maintenance skills.</p>

WORK EXPERIENCE

WEXP 191 General Work Exp-1st Sem 1 - 3
Hours: 3 TO 9 Lab

Students employed on a job that is not directly related to their college major may earn up to three units. The students must have the approval of the Coordinator of Cooperative Education or his/her designee and the employer must agree to evaluate the student's performance. A minimum of three Measurable Learning Objectives must be established to ensure that the student will gain worthwhile job skills/knowledge.

WEXP 192 General Work Exp - 2nd Sem 1 - 3
Hours: 3 TO 9 Lab

Students employed in a job that is not directly related to their college major may earn up to three units. The student must have the approval of the program coordinator or his/her designee and the participating employer must provide expanded learning opportunities which add to the student's job skill/ knowledge.

Prerequisites: WEXP 191 or equivalent college course with "C" or better.

WEXP 193 C through WEXP 193 Z 1 - 4
Hours: 4 TO 17 Lab

List of WEXP 193 Courses:

WEXP 193 C	Court Interp Wrk Exp-1st Sem	1 - 4
WEXP 193 D	Food Services Wrk Exp-1st Sem	1 - 4
WEXP 193 E	Early Interv Wrk Exp-1st Sem	1 - 4
WEXP 193 F	Agriculture Wrk Exp-1st Sem	1 - 4
WEXP 193 G	Architecture Wrk Exp-1st Sem	1 - 4
WEXP 193 H	Human Services Wrk Exp-1st Sem	1 - 4
WEXP 193 I	Bus & Ind Wrk Exp-1st Sem	1 - 4
WEXP 193 J	AJ Wrk Exp-1st Sem	1 - 4
WEXP 193 K	Child Dev Wrk Exp-1st Sem	1 - 4
WEXP 193 L	Education Wrk Exp-1st Sem	1 - 4
WEXP 193 M	Maint Tech Wrk Exp-1st Sem	1 - 4
WEXP 193 N	Nursing Wrk Exp-1st Sem	1 - 4
WEXP 193 O	Law Office Clk Wrk Exp-1st Sem	1 - 4
WEXP 193 P	Paralegal Wrk Exp-1st Sem	1 - 4
WEXP 193 S	Spec Ed Wrk Exp-1st Sem	1 - 4
WEXP 193 T	Industry Tech Wrk Exp-1st Sem	1 - 4
WEXP 193 V	Automotive Wrk Exp-1st Sem	1 - 4
WEXP 193 W	Health Prof Wrk Exp-1st Sem	1 - 4
WEXP 193 X	Fire Tech Wrk Exp-1st Sem	1 - 4
WEXP 193 Y	Sports Med Wrk Exp-1st Sem	1 - 4
WEXP 193 Z	Fashion Wrk Exp-1st Sem	1 - 4

Course Description for each of the WEXP 193 courses follows:

This course is designed to give the student occupational learning opportunities and career awareness. This is accomplished through employment (paid or volunteer) providing learning related to the student's educational or occupational goal. The student's employer must agree to participate by assisting in developing measurable learning objectives, verifying hours worked, meeting with the designated college instructor and providing an evaluation of the student learning objectives. Students may earn a maximum of four units per semester. Students must work 75 hours for each unit of paid work experience credit. If a student is performing non-paid volunteer work, one unit may be earned for each 60 hours of training. Limitation on Enrollment: Students must meet with the program coordinator or designee to register.

WEXP 194 C through WEXP 194 Z 1 - 4

Hours: 4 TO 17 Lab

List of WEXP 194 Courses:

WEXP 194 C	Court Interp Wrk Exp-2nd Sem	1 - 4
WEXP 194 D	Food Services Wrk Exp-2nd Sem	1 - 4
WEXP 194 E	Early Interv Wrk Exp-2nd Sem	1 - 4
WEXP 194 F	Agriculture Wrk Exp-2nd Sem	1 - 4
WEXP 194 G	Architecture Wrk Exp-2nd Sem	1 - 4
WEXP 194 H	Human Services Wrk Exp-2nd Sem	1 - 4
WEXP 194 I	Bus & Ind Wrk Exp-2nd Sem	1 - 4
WEXP 194 J	AJ Wrk Exp-2nd Sem	1 - 4
WEXP 194 K	Child Dev Wrk Exp-2nd Sem	1 - 4
WEXP 194 L	Education Wrk Exp-2nd Sem	1 - 4
WEXP 194 M	Maint Tech Wrk Exp-2nd Sem	1 - 4
WEXP 194 N	Nursing Wrk Exp-2nd Sem	1 - 4
WEXP 194 O	Law Office Clk Wrk Exp-2nd Sem	1 - 4
WEXP 194 P	Paralegal Wrk Exp-2nd Sem	1 - 4
WEXP 194 S	Spec Ed Wrk Exp-2nd Sem	1 - 4
WEXP 194 T	Industry Tech Wrk Exp-2nd Sem	1 - 4
WEXP 194 V	Automotive Wrk Exp-2nd Sem	1 - 4
WEXP 194 W	Health Prof Wrk Exp-2nd Sem	1 - 4
WEXP 194 X	Fire Tech Wrk Exp-2nd Sem	1 - 4
WEXP 194 Y	Sports Med Wrk Exp-2nd Sem	1 - 4
WEXP 194 Z	Fashion Wrk Exp-2nd Sem	1 - 4

Course Description for each of the WEXP 194 courses follows:

This course is designed to give the student occupational learning opportunities beyond career experiences gained in WEXP 193. This is accomplished through employment (paid or volunteer) providing learning related to the student's educational or occupational goal. The student's employer must agree to participate by assisting in developing measurable learning objectives, verifying hours worked, meeting with the designated college instructor and providing an evaluation of the student learning objectives. Students may earn a maximum of four units per semester. Students must work 75 hours for each unit of paid work experience credit. If a student is performing non-paid volunteer work, one unit may be earned for each 60 hours of training. Limitation on Enrollment: Student must meet with the program coordinator or designee to register.

Prerequisite: WEXP 193 course with the same letter: for example, WEXP 194 D has a prerequisite of WEXP 193 D.

WEXP 195 C through WEXP 195 Z	1 - 4	WEXP 196 C through WEXP 196 Z	1 - 4
Hours: 4 TO 17 Lab		Hours: 4 TO 17 Lab	
List of WEXP 195 Courses:		List of WEXP 196 Courses:	
WEXP 195 C Court Interp Wrk Exp-3rd Sem	1 - 4	WEXP 196 C Court Interp Wrk Exp-4th Sem	1 - 4
WEXP 195 D Food Services Wrk Exp-3rd Sem	1 - 4	WEXP 196 D Food Services Wrk Exp-4th Sem	1 - 4
WEXP 195 E Early Interv Wrk Exp-3rd Sem	1 - 4	WEXP 196 E Early Interv Wrk Exp-4th Sem	1 - 4
WEXP 195 F Agriculture Wrk Exp-3rd Sem	1 - 4	WEXP 196 F Agriculture Wrk Exp-4th Sem	1 - 4
WEXP 195 G Architecture Wrk Exp-3rd Sem	1 - 4	WEXP 196 G Architecture Wrk Exp-4th Sem	1 - 4
WEXP 195 H Human Services Wrk Exp-3rd Sem	1 - 4	WEXP 196 H Human Services Wrk Exp-4th Sem	1 - 4
WEXP 195 I Bus & Ind Wrk Exp-3rd Sem	1 - 4	WEXP 196 I Bus & Ind Wrk Exp-4th Sem	1 - 4
WEXP 195 J AJ Wrk Exp-3rd Sem	1 - 4	WEXP 196 J AJ Wrk Exp-4th Sem	1 - 4
WEXP 195 K Child Dev Wrk Exp-3rd Sem	1 - 4	WEXP 196 K Child Dev Wrk Exp-4th Sem	1 - 4
WEXP 195 L Education Wrk Exp-3rd Sem	1 - 4	WEXP 196 L Education Wrk Exp-4th Sem	1 - 4
WEXP 195 M Maint Tech Wrk Exp-3rd Sem	1 - 4	WEXP 196 M Maint Tech Wrk Exp-4th Sem	1 - 4
WEXP 195 N Nursing Wrk Exp-3rd Sem	1 - 4	WEXP 196 N Nursing Wrk Exp-4th Sem	1 - 4
WEXP 195 O Law Office Clk Wrk Exp-3rd Sem	1 - 4	WEXP 196 O Law Office Clk Wrk Exp-4th Sem	1 - 4
WEXP 195 P Paralegal Wrk Exp-3rd Sem	1 - 4	WEXP 196 P Paralegal Wrk Exp-4th Sem	1 - 4
WEXP 195 S Spec Ed Wrk Exp-3rd Sem	1 - 4	WEXP 196 S Spec Ed Wrk Exp-4th Sem	1 - 4
WEXP 195 T Industry Tech Wrk Exp-3rd Sem	1 - 4	WEXP 196 T Industry Tech Wrk Exp-4th Sem	1 - 4
WEXP 195 V Automotive Wrk Exp-3rd Sem	1 - 4	WEXP 196 V Automotive Wrk Exp-4th Sem	1 - 4
WEXP 195 W Health Prof Wrk Exp-3rd Sem	1 - 4	WEXP 196 W Health Prof Wrk Exp-4th Sem	1 - 4
WEXP 195 X Fire Tech Wrk Exp-3rd Sem	1 - 4	WEXP 196 X Fire Tech Wrk Exp-4th Sem	1 - 4
WEXP 195 Y Sports Med Wrk Exp-3rd Sem	1 - 4	WEXP 196 Y Sports Med Wrk Exp-4th Sem	1 - 4
WEXP 195 Z Fashion Wrk Exp-3rd Sem	1 - 4	WEXP 196 Z Fashion Wrk Exp-4th Sem	1 - 4

Course Description for each of the WEXP 195 courses follows:

This course is designed to give the student occupational learning opportunities beyond career experiences gained in WEXP 193. This is accomplished through employment (paid or volunteer) providing learning related to the student's educational or occupational goal. The student's employer must agree to participate by assisting in developing measurable learning objectives, verifying hours worked, meeting with the designated college instructor and providing an evaluation of the student learning objectives. Students may earn a maximum of four units per semester. Students must work 75 hours for each unit of paid work experience credit. If a student is performing non-paid volunteer work, one unit may be earned for each 60 hours of training. Limitation on Enrollment: Student must meet with the program coordinator or designee to register.

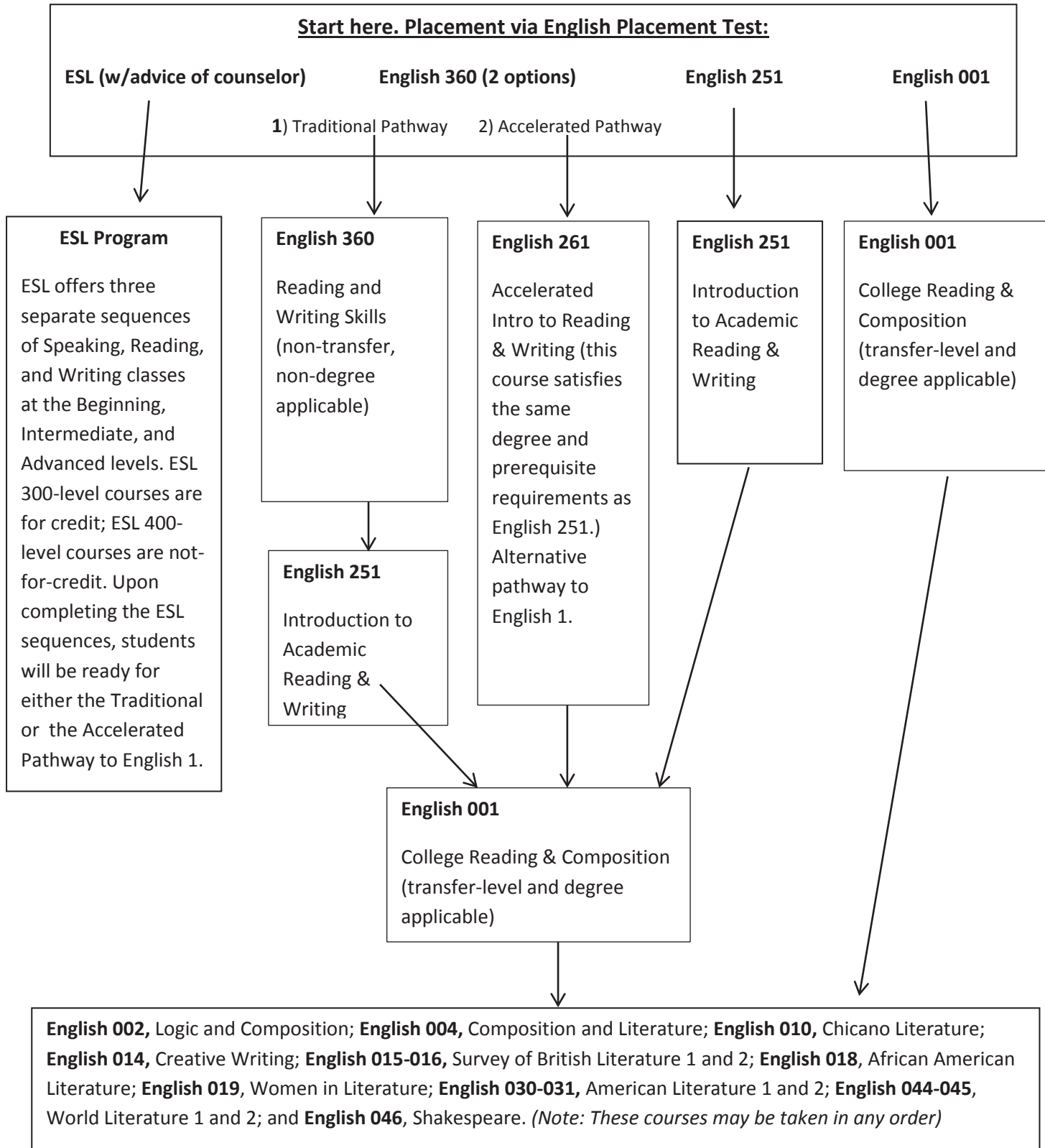
Prerequisite: WEXP 194 course with the same letter: for example, WEXP 195 D has a prerequisite of WEXP 194 D.

Course Description for each of the WEXP 196 courses follows:

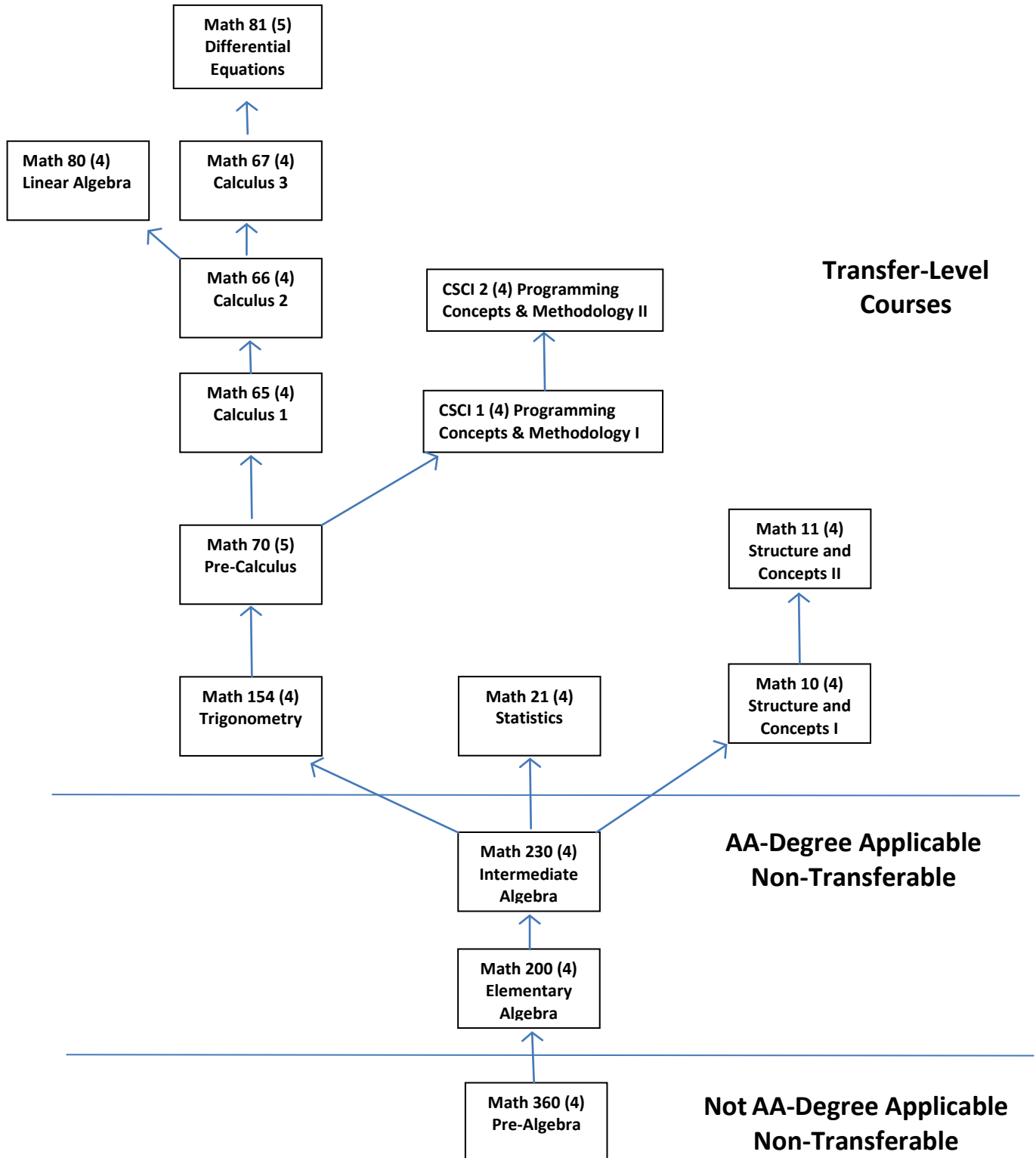
This course is designed to give the student occupational learning opportunities beyond career experiences gained in WEXP 193. This is accomplished through employment (paid or volunteer) providing learning related to the student's educational or occupational goal. The student's employer must agree to participate by assisting in developing measurable learning objectives, verifying hours worked, meeting with the designated college instructor and providing an evaluation of the student learning objectives. Students may earn a maximum of four units per semester. Students must work 75 hours for each unit of paid work experience credit. If a student is performing non-paid volunteer work, one unit may be earned for each 60 hours of training. Limitation on Enrollment: Student must meet with the program coordinator or designee to register.

Prerequisite: WEXP 195 course with the same letter: for example, WEXP 196 D has a prerequisite of WEXP 195 D.

English Sequence of Classes



Mathematics Sequence



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Clerical Assistant

CHURCH, RENEE
Senior Secretary

CLOUTIER, ANGIE
Grant Program Specialist

CORREIA, JOSEPH
Case Manager, Job Developer

COTE, AMANDA
Clerical Assistant

DAGO, DING
Custodian

DAVENPORT, TIMOTHY
Microcomputer Specialist

DEBOEF, SARA
Senior Secretary

DEISMAN, CHANDA
Senior Secretary

DELEON, OSIRIS
Counseling Assistant

DEMMERS, CAROL
Library Specialist

DIAZ, KELLY
Senior Instructional Specialist/Lead Coordinator

DIAZ, MAYRA
Student Success Coordinator

DICKINSON, MATT
Custodian

FELECIANO, BEVERLY
Administrative Assistant

FERNANDEZ, TAMERA
Grant Secretary

FIGUEROA, LUZ
Senior Secretary

FISHBACK, LAUREN
Administrative Assistant

FOSTER, KIMBERLY
Senior Custodian

FOX, MICHAEL
Custodian

FRANCO, CAROLYN
Student Services Specialist-EOPS

FREEMAN, MONA
Matriculation/International Students

GARCIA, ELISE
Student Success Coordinator

GARCIA, IRENE
Senior Admissions & Records Specialist

GARCIA, JOSEPH
Lead Custodian

GARCIA, JUAN
Police Academies Coordinator

GARCIA, SIMONA
Custodian

GARSTER, STACEY
Support Services Specialist

GARVER, LAUREL
Training Resource Center Specialist

GARZA, JASON
Counseling Technician

GARZA, JESUCITA
Grill/Fry Cook

GILES, SHELLI
Administrative Assistant

GOMEZ, ALEXANDRA
Accounting Technician

GONZALES, MARY
Administrative Assistant

GOODWIN, DUANE
Activity Lead

HAGTHROP, CHRISTINE
Library Technician

HALL, LINDSAY
Foundation Specialist

HARP, JOHN
Custodian

HENDERSON, LACEY
Administrative Technician

HENRY, LIVIER
Financial Aid Specialist

HENSON, MELONY
Senior Instructional Assistant

HERNANDEZ, ALICE
Clerical Assistant

HIDALGO, PEDRO
Custodian

HIGHTOWER, MARY
Registered Nurse

HILL, JUDI
Instructional Assistant-Lab Setting

HINOJOS, SYLVESTER
Custodian

IRIYE-MEADE, JEANNIE
Administrative Technician

IRVING, SHAYMAS
Programmer Analyst

IVES, LINDA
Clerical Assistant

JARAMILLO, AGUSTIN
Custodian

JOHNSON, KARYL
Bookstore Operations Coordinator

JONES, JASON SCOTT
District Police Officer

JONES, LORI
Instructional Division/Program Secretary

KEEN, GREG
Articulation/Assessment Coordinator

KELLY, LOREN
Student Success Coordinator

KENNEDY, BRETT
Program Specialist - EOPS/CARE

KENT, SAMANTHA
Accounting Assistant

KINCADE, JUSTINE
Evaluations Specialist

KING, RYAN
Account Clerk

KIPNIS, DARCY
Student Services Specialist

KIRKMAN, KIMBERLY
Accounting Coordinator

KIRKPATRICK, KAREN
Lab Technician

KOZLOWSKI, SARA
Clerical Assistant

LACEY, ROSE
Administrative Technician

LAIRD, SCOTT
Grounds Maintenance Worker II

LAMAR, STEVE
Theatre Technician

LAMB, JORDAN
Schedule Coordinator/Administrative Assistant

LAMB, KEN
Maintenance Worker

LAMB, VANESSA
Media Specialist

LARSON, RAYMOND
Microcomputer Specialist

LEAL, MARY
Payroll Specialist

LEBOUEF, CATHY
Accounting Technician

LEE, YEE
Center Student Services Specialist

LOPEZ, CARLOS
Custodian

LOPEZ, ERNEST
Student Success Coordinator

LOPEZ, TINA
Support Services Coordinator

LORENZI, LISA
Assistant Athletic Trainer

LUEVANO, LETICIA
Library Assistant

LUNA, LORI
Instructional Division/Program Secretary

MACRAE, SANDRA
Senior Secretary

MALLOUF, JEREMY
Microcomputer Specialist

MANGRUM, CARLA
Accounting Technician

MARKHAM, JAE
Database Administrator

MARTIN, BRIAN
Instructional Assistant-Lab Setting

MARTIN, DELMAR
Maintenance Electrician

MARTINEZ, ANALISA
Administrative Assistant

MARTINEZ, EDWARD
Financial Aid Specialist

MARTINEZ, TEODORA
Custodian

MASSEY, THERESA
Assessment Specialist

MCCRIGHT, PRISCILLA
Clerical Assistant

MCGUIRE, CATHERINE
Coordinator - Welcome, Outreach, Career and Transfer Center

MCLAIN, WENDI
Access Specialist/High Technology

MEIER, STEPHEN
System Administrator

MIRAMONTES, AGUSTIN
Grill/Fry Cook

MITCHELL, PATRICK
Media Services Technician

MOLINE, FAY
Instructional Division/Program Secretary

MORAES-GUTIERREZ, LUDMILA
Senior Programmer Analyst

MORGAN, NANCY
Accounting Technician

MORRELLI, DEREK
Lab Technician

MUNIZ, ASHLEY
Veterans' Coordinator

MUNOZ, STUART
Printer/Bindery Operator

NORVALL, CYNTHIA
College Nurse

ORTEGA, CHRISTY
Instructional Assistant, Test Proctor

OWSLEY, STANLEY
Grounds Maintenance Worker II

PANKEY, KELLY
Administrative Assistant

PARKER, LISA
Support Services Clerk

PARKS, MARCY
Senior Secretary

PERESCHICA, PRISCILLA
Research Analyst

PEREZ, FRANK
Grounds Maintenance Worker II

PEREZ, SUSANA
Student Success Coordinator

PIMENTEL, AMY
Financial Aid Outreach Specialist

PIPER, CINDY
Senior Clerical Assistant

POBLETE, JUAN
Custodian

PRATER, MATTHEW
Lab Specialist - Agriculture Instructional Unit

PRATT, STEPHEN
Network Analyst

PUGA, REBECCA
Financial Aid Technical Specialist

RACHAL, JENNIFER
Senior Instructional Specialist

RAMIREZ, ROBERT
Custodian

RANGEL-LEMUS, ELVIA
Work Study Specialist

REILLY, WILLIAM
Senior Custodian

RENTERIA, ROSARIO
Clerical Assistant

REYNOSO, KEILA
Payroll Specialist

ROBINSON, DONNA
College Accountant

RODRIGUEZ, VELIA
Lead Coordinator, Admissions & Records

ROGERS, SCOTT
Student Success Coordinator

ROMO SANCHEZ, ROSA
Financial Aid Specialist

RUVALCABA, ISMAEL
Custodian

SALAS, BRITTNEY
Job Developer – Workability

SANCHEZ, ANGELA
Senior Secretary

SANCHEZ, CANDELARIO
Mechanic

SANCHEZ, MARIA
Student Services Specialist

SCHIELER, DUSTIN
Webmaster

SHORT, BRITTANY
Account Clerk

SIEGEL, LETICIA
Financial Aid Specialist

SISK, JEFFERY
Grounds Maintenance Worker II

SLAGHT, CHARLES
Bookstore Shipping & Receiving Clerk

SOLIS, ARISTEO
Grounds Maintenance Worker II

SOLIS, JR., ARISTEO
Grounds Maintenance Worker II

SOLIS, OLGA
Custodian

SOLIS, ROSENDO
Grounds Maintenance Worker II

SPAITE, HANNAH
Center Student Services Specialist

SPEIDEL, ROB
Custodian

STIFF, SYLVIA
Administrative Assistant

SWEENEY, AMELIA
Administrative Assistant

TERRY, NICHOLAS
Theatre Technician

TIERCE, JEREMY
Computer Resource Specialist

TODD, SARAH
Coordinator – CalWORKS

TORRES, JOSE
Programmer Analyst

TORRES, KATHRYN
Administrative Assistant

TREVINO, EUGENE
HVAC Technician

TREVINO, REGINA
Registration Coordinator

URIBE, CRYSTAL
Payroll Specialist

VARDEMAN, WINSTON
District Police Officer

VASQUEZ, MARIA
Food Service Assistant

WALSH, SUSANA
Clerical Assistant

WEISS, DELIA
Administrative Assistant

WHITE, JESSE
Student Success Coordinator

WHITE, RYAN
Senior Programmer Analyst

WILLIAMS, SANDRA
Coordinator – Tutorial Center

WRIGHT, KAREN
Facilities Technician

ZANTOS, HEATHER
Administrative Assistant

ZAYAS, JESSICA
Clerical Assistant

EMERITUS

ADAMS, DAVID
Dean, Facilities & Operations, 1975-2001

ANDERSON, KENNETH W.
Political Science/Psychology, 1968-2006

ANDERSON, VERNON
Sociology, 1957-1992

ANTHONY, BETTY
Home Economics, 1964-1989

AUDINO, SUSAN
Home Economics, 1971-2002

BADRKHAN, KAMIRAN S.
President/Superintendent, 1997-2005

BAILEY, JENNIFER
English, 1989-2010

BARBA, JOSEPH
English, 1962-1993

BARRANGER, JOHN
English, 1990-2003

BARTON, JAMES
Mathematics, 1969-1992

BASHAM, JEFF
Social Science, 2004-2016

BEARDEN, ALIA
Physical Education, 1957-1981

BECK, FRANK
Social Sciences, 1975-2002

BENNETT, LES
Metals Technology, 1967-1988

BERG, LEROY
Vice President, Evening College, 1962-1984

BETTENCOURT, BILL
Vice President, Academic Services
Dean, Student Services
1967-1999

BILDEN, JON
Music, 1990-2013

BIRD, DAVID
Chemistry, 1977-2014

BLACK, CHERYL
Nursing, 1975-2003

- BLACK, ELLSWORTH
Nursing, 1980-2002
- BLACK, SHARON
Counseling, 1984-2003
- BOCKMAN, DAVID
Academic Dean, 1977-2002
- BRADY, MERRILYN
Student Health Center, 1994-2008
- BRANCO, ALLEN
Athletics Director, 1969-2001
- BRICKER, JOHN
History, 1956-1981
- BRINGHURST, NEWELL
History, Political Science, 1981-2006
- BROWN, JANICE
Nursing, 2000-2015
- BRUNNER, ILA JUNE
Nursing, 1975-1997
- BROYLES, KEN
Automotive Technology, 1974-1993
- BULLOUGH, REBECCA
Computer Applications/Business, 1999-2013
- CAMPBELL, DEBORAH
Consumer/Family Studies, 1990-2013
- CARMICHAEL, MARY
French/English, 1969-2009
- CARLSON, ROSA
Vice President, Academic Services, 1999-2005
- CHANCE, STEPHEN
Automotive, 1993-2010
- CHICCONI, MICHAEL
Automotive, 1999-2016
- COLE, JAMES
Psychology, 1968-1996
- CONLEY, RICHARD
Work Experience/Business, 1968-1996
- COTTRELL, RICHARD
Architecture, 1960-1990
- CRAIN, JOHN
Geology/Mathematics, 1970-1997
- CULVER, LOUISE
English 1981-2008
- DECKER, IRVING
Social Sciences, 1972-2002
- DECKER, WILLIAM
English, 1965-1996
- DE SILVA, DAVID
Agriculture, 1984-2014
- DOWNES, WILLARD
Agriculture, 1976-2003
- DUTTO, LAURENCE
Provost, Tulare College Center
Dean, Career Technical Education
Agriculture, 1984-2015
- EHRlich, VALERIE
English, 1995-2015
- ENSIGN, PAT
Nursing 1975-1983; 1987-1991
- ERICKSON, DAVID
Vice President, Administrative Services, 1990-2001
- FALCONER, JEFF
Business, 1975-2006
- FALLER, PAMELA
Paralegal, 1985-2010
- FERGUSON, ELIZABETH
English, 1949-1983
- FINNEY, NANCY
Librarian, 1980-2002
- FIRSTMAN, ARANGA
Biological Sciences, 1974-2003
- FISCHER, CURT
History/Anthropology, 1955-1984
- FLAHERTY, MICHAEL
Vice President, Administrative Services;
Business, 1966-1990
- FLORES, RICHARD
Art, 1997-2015
- FLY, JOHN
Building Trades, 1961-1984
- FOTIAS, CHRISTOS
Spanish, 1949-1983

FRANCISKOVICH, SUSAN
Linguistics (ESL), 1990-2010

FREEBORN, NORMA
Nursing, 1981-2002

FRESE, ROD
Vice President, Administrative Services, 2003-2010

GEHMAN, ROBERT
Psychology, 1965-2006

GILCREST, THOMAS
Athletics/PE/Counseling, 1963-1996

GILMAN, JOELLEN
Nursing, 2007-2013

GIVAN, CAROLYN
English/Counseling, 1959-1978

GLASS, JENNY
Dean, Human Resources
Business, 1974-2004

GODDARD, DON
Music, 1990-1997

GOODYEAR, DONALD
Superintendent/President;
Vice President, Student Services, 1976-2006

GORLEY, PAUL
Counseling, 1984-2010

GREENING, JOHN
Biology, 1976-2008

GRUMBLING, BETTY
English, 1970-1988

GRUMBLING, HENRY
Photography, 1962-1988

HALL, GERRY
Business, 1959-1982

HALL, LINCOLN
Superintendent/President
Vice President, Instruction
1957-1981; 1984-1991

HALL, MARCY
Consumer/Family Studies, 1969-1993

HALL, ROBERT
English, 1963-1991

HAMILTON, DONNA
Early Childhood Education, 1977-1996

HAMILTON, RICHARD
English/Journalism, 1963-1990

HAMILTON, WILLIAM
Psychology, 1969-1996

HARRIS, RICHARD
Agriculture, 1972-2009

HARNER, RUTH
Business, 1967-1992

HART, TIM
Paralegal/Administration of Justice, 1989-2006

HAYCOCK, GINA
Librarian, 1995-2016

HAYS, RONALD
Dean, Financial Aid, 1979-2004

HEATER, MARGARET ANN
Librarian, 1975-1993

HESTER-REYES, MICHELE
Spanish, 1983-2014

HETTICK, LARRIMORE
English, 1965-1996

HOBSON, REBECCA
Nutrition, 1999-2016

HOFER, EUGENE
Physical Education, 1967-2001

HOFER, FAYRENE
Business, 1980-1996

HOMAN, RALPH
Art, 1964-1997

HOLT, BERT
Physical Education, 1965-1988

HOUK, STEPHEN
Physical Science/Engineering/Math, 1979-2010

HUDDLESTON, LAUNA
Business, 1966-1992

HURTADO, ALEC
Environmental Control Technology, 1981-2015

INOUE, YOSHINOBU
Mathematics, 1988-2010

ISELL, NORM
Agriculture, 1984-1997

JACKSON, SARAH
Nursing, 1981-1996

JACOBSEN, RICHARD
Vice President, Business Services, 1957-1984

JENSEN, SUSAN
English, 2004-2016

JOHNSON, NANCY
Nursing, 1973-1996

JOHNSON, NOBLE
Theatre Arts, 1962-2000

JONES, PAUL
Theatre Arts, 1977-2004

JORDAN, JONI
English, 1991-2016

JUSTUS, LOIS
Nursing, 1970-1993

KELLY, ROGER
Physical Education, 1989-2006

KENNEDY, LINDA
Business, 1993-2003

KENNEDY, ROY
Business, 1981-2003

KENT, CONSTANCE
English, 1988-2003

KING, SHERIDAN
Counselling, 1990-2006

KITCHELL, PAULETTE
Child Development, 1988-2004

KLEINFELTER, DALE
Chemistry, 1963-1990

KUNCL, GARY
Public Safety Training, 1990-2008

LAKE, CONNIE
English, 1988-2008

LANG, ANNIE
Mathematics, 1969-1977

LAWTON, JACQUELINE
English, 1989-2010

LEWIS, KATHIE
Librarian, 1986-2012

LEWIS, REX
Business, 1960-1993

LOYD, RAY
Architecture/Drafting Technology, 1979-2004

LYNCH, TIMOTHY
Music, 1990-2013

MCCLURE, DARLEAN
Business, 1977-2010

MC CORMICK-MIRANDA, ANNE
Home Economics, 1966-1984

MCGRIFF, RON
Political Science, 1996-2010

MADDOX, GENE
Art, 1969-2004

MALDONADO-ARROYO, CELIA
Associate Dean, Student Services (EOPS), 1996-2006

MANCINI, JAMES
Sign Language, 1979-2006

MANNON, KIRBY
Physical Education, 1973-2003

MARCELLUS, ROBERT
Fine Arts, 1966-1984

MARTIN, FRED
Biological Sciences, 1965-1992

MARTIN, NOEL
History, 1959-1984

MAST, DONALD
Dean, Student Services, 1982-2009

MIRVISS, LYNN
Nursing/Administration, 1971-1998

MORRIS, CAROL
Nursing, 1998-2010

MORRISON, MILT
English, 1990-2004

MORSE, GEORGE
English, 1965-1984

NEELEY, DOROTHY
Business, 1981-1993

NORTON, DALE
Interim Vice President, Academic Services;
Dean, Academic Services,
Language Arts, 1985-2007

PAPPAS, GEORGE
Speech/Drama, 1955-1984

PARKER, ALLEN
Chemistry, 197-1989

PARKER, GEORGELLEN
Counseling, 1983-2003

PARLIER, JASPER
Automotive Technology, 1968-1993

PETERSON, WAINO
Political Science, 1965-1996

PIETROFORE, AL
Fine Arts, 1957-1984

POWELL, GEORGE
Building Trades/Math, 1984-1997

PRESTON, WAYNE
Biological Sciences, 1973-2010

REYNOLDS, BARBARA
Consumer/Family Studies, 1984-2008

RICO, DIANNA
Counseling, 1990-2014

RUIZ, RON
History, 1976-2013

RYAN-STARMER, BEA
Business, 1977-1996

SCROGGINS, WILLIAM T.
President/Superintendent, 2006-2011

SEASTROM, GREG
English, 1968-1996

SEAWARD, JEFFREY
Music, 1998-2016

SELLERS, JAMES
Biological Sciences, 1977-2006

SHARPLES, DIANNE
Academic Dean, 1970-2003

SHELLY, DANIEL
Chemistry, 1974-2009

SHEWEY, JEAN
Physical Education, 1959-1984

SHIRK, RICHARD
Building Trades, 1975-2004

SILVA, VERNON
Dean, Student Services, 1957-1983

SINDLINGER, AL
Metals Technology, 1961-1990

SMITH, ELAINE
Chemistry, 1979-2002

STAVA, SHERRY
Nursing, 1987-2010

STRAW, MARIE
Chemistry, 1990-2013

SWANSON, BETTY
Nursing, 1971-1978

SWEENEY, ALBERT
English, 1963-1984

TAYLOR, ROY
Physical Education, 1950-1984

THIEGE, JACK
Information Services, 1960-1989

TOMASEVICH, ROBERT
Agriculture, 1971-1984

VANE, R.L.
Social Sciences, 1965-1980

VIEIRA, DONALD
Agriculture, 1965-1996

WALKER, LEWIS
Librarian, 1965-1984

WEAVER, ARLENE
Nursing, 1979-1988

WEBB, ELAINE
Research and Grants, 1980-2006

WEST, VERNON
Welding/English, 1976-1990

WICKMAN, GAYLE
Nursing, 1974-1993

Addendum



The programs on the following pages were approved after publication of the 2016-2017 COS General Catalog.

They are effective with the Fall 2016 or Spring 2017 Semester.

Associate in Arts in Philosophy for Transfer (AA-T)

Effective: Fall 2016

Division: Social Science

Students completing the Associate in Arts in Philosophy for Transfer (AA-T) degree will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Philosophy. Students completing the Associate in Arts in Philosophy for Transfer (AA-T) degree will have an introductory foundation for the field of Philosophy through the study of logic, ethics, political philosophy, and epistemology. Students will acquire skills and abilities in articulating, interpreting and analyzing philosophical ideas consistently and relevant to an issue in order to find better answers.

PROGRAM OUTCOMES:

- Accurately articulate, interpret and analyze philosophical ideas consistently and relevant to a philosophical issue in order to find better answers.
- Analyze ordinary language claims to determine whether conclusions are valid or strong.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in Philosophy for Transfer (AA-T) degree is intended to meet the lower division requirements for Philosophy for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: any position that requires critical and abstract thinking including law, education, journalism, civil service, public relations, non-profit work, ministry, business management, and the arts.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University General Education (CSU GE)	39		
B. Intersegmental General Education Transfer Curriculum (IGETC-CSU)**	37		

GE Units: 37-39

Required major courses that may double count for specific CSU GE and IGETC AREAs are designated in the CSU GE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSU GE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

2. REQUIRED COURSES:

A. PHIL 001	Introductory Philosophy	3	C2	3B
B. PHIL 020	Introductory Logic	3	A3	
C. PHIL 005	Ethics	3	C2	3B
D. HIST 004	Western Civilization to 1648	3	D6	4F
E. HIST 005	West Civilization Since 1648	3		4F
	Required Courses Units:	15		

(continued on next page)

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 15 units may be double counted above in 1A (CSU GE) or 12 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

Associate in Arts in Philosophy for Transfer (AA-T)

Division: Social Science

(continued from previous page)

	Units	CSU GE AREA	IGETC AREA
2. RESTRICTED ELECTIVES:			
Choose a minimum of 3 units from the following:			
PHIL 012 Comparative Religion	3		
PHIL 013 Introduction To The Old Testament	3		
PHIL 014 Introduction To The New Testament	3		
HIST 025 World History to 1500	3		
HIST 017 People of the US to 1877	3	D6	
ENGL 044 World Literature 1	3		
Restricted Electives Units:	3		
3. ELECTIVES			
Select additional transferable courses numbered 1-199 to achieve 60 units:			
Electives Units:	17-18		
Total Units	60		

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 15 units may be double counted above in 1A (CSU GE) or 12 units may be double counted above in 1B (IGETC-CSU) in the AREAs designated in the CSU GE and IGETC columns.

Associate in Science in Biology for Transfer (AS-T)

Effective Fall 2016

Division: Science

Students completing the Associate in Science in Biology for Transfer Degree will be able to seamlessly transfer into the CSU system to pursue a baccalaureate degree in biology. Students completing the Biology (AS-T) degree will have an introductory foundation for the field of Biology through the study of Biomolecules, cells, heredity, evolution, and ecological principles. Students will acquire skills and abilities in the scientific method, experimental procedures, data analysis and critical thinking.

PROGRAM OUTCOMES:

- Design, implement and analyze the results of experiments utilizing the scientific method as measured by the scientific method rubric.
- Infer the role of evolution at the molecular, cellular, population or ecological level of biology as measured by the evolution rubric.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Science in Biology for Transfer (AS-T) Degree is intended to meet the lower division requirements for biology for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: Laboratory technician, teaching, and research scientist.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University GE for STEM (CSU GE)	33		
B. Intersegmental GE Transfer Curriculum for STEM (IGETC-CSU)**	31		

Note: Due to the high unit requirement for this major, the 31-unit IGETC for STEM Majors and the 33-unit CSU GE for STEM Majors GE patterns have been approved by the Chancellor's Office to allow compliance with the 60 unit AS-T program maximum. One less course (3 units) is required in AREA 3/C (Arts and Humanities) and one less course (3 units) is required in AREA 4/D (Social and Behavioral Sciences).

Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSUGE and recommended for CSU-bound students utilizing IGETC and is reflected in the double counting designations.

General Education Units: 31-33

2. REQUIRED MAJOR COURSES:

A. BIOL 001	Principles of Biology 1	5	B2, B3	5B, 5C
B. BIOL 002	Principles of Biology 2	5		
C. CHEM 001	General Chemistry 1	5	B1, B3	5A, 5C
D. CHEM 002	General Chemistry 2	5		
E. MATH 065	Calculus 1	4	B4	2A
	Required Courses Units:	24		

3. REQUIRED PHYSICS COURSE SEQUENCE:

Complete one of the following Physics Course Sequences:

A. PHYS 020	General Physics 1	5		
and PHYS 021	General Physics 2	5		
B. PHYS 055	Physics 1: Mechanics & Waves	4		
and PHYS 056	Physics 2: E&M and Heat	4		
	Required Physics Courses Sequence Units:	8-10		

4. ELECTIVES:

Select additional transferable courses numbered 1-199 to achieve 60 units.

Elective Units:	2-7
Total Units:	60

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average as well as a "C" or better in all courses required for the major (see **Transfer Information and Requirements** section for additional detail).

*Course(s) meets General Education requirement and 9 units may be double counted above in 1A (CSUGE) or 10 units in 1B (IGETC) in the AREAs designated in the CSUGE and IGETC columns.

** IGETC-CSU requires completion of IGETC AREA 1C.

Associate in Arts in Theatre Arts for Transfer (AA-T)

Effective Fall 2016

Division: Fine Arts

Students completing the Associate in Arts in Theatre Arts for Transfer (AA-T) Degree will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Theatre Arts. Students completing this AA-T in Theatre Arts degree will have an introductory foundation for the field of Theatre Arts through the study of acting, set design/construction, costume design/construction, make-up design/application, and lighting and will acquire skills in performance, design and technology.

PROGRAM OUTCOMES:

- Critically analyze the acting component of a publicly-produced production.
- Apply historical context to a performance.
- Synthesize interpretation of ideas with the physical/psychological action in performance in front of an audience.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in Theatre Arts for Transfer (AA-T) Degree is intended to meet the lower division requirements for theatre arts for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: actor/director, designer, technician, educator and consultant.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:			
A. California State University GE for STEM (CSU GE)	39		
B. Intersegmental GE Transfer Curriculum for STEM (IGETC-CSU)**	37		
General Education Units:	37-39		

Required major courses that may double count for specific CSUGE and IGETC AREAs are designated in the CSUGE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSUGE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

2. REQUIRED MAJOR COURSES:

A. DRAM 001	Intro to the Theatre	3	C1	3A
B. DRAM 002	Fundamentals of Acting 1	4	C1	
C. DRAM 019	Rehearsal & Performance 1	2		
or DRAM 020	Music Theatre Rehears & Perform	2		
or DRAM 021	Rehearsal and Performance 2	2		
	Required Courses Units:	9		

3. RESTRICTED ELECTIVES - LIST A: Select 9 units from the following:

DRAM 012	Costuming	3		
DRAM 013	Beginning Stagecraft	3		
DRAM 015	Beginning Stage Lighting	3		
DRAM 017	Makeup	3		
	Restricted Electives - List A Units:	9		

4. ELECTIVES:

Select additional transferable courses numbered 1-199 to achieve 60 units:

The Drama Department recommends the following courses to fulfill the elective requirement:

DRAM 3, 4, 5, 14, 16, 22, 40, and/or (DRAM 19, 20, 21 if not completed in required courses).

Elective Units:	8-9
Total Units:	60

The Associate in Arts Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average as well as a "C" or better in all courses required for the major (see Transfer Information and Requirements section for additional detail).

*Course(s) meets General Education requirement and 6 units may be double counted above in 1A (CSUGE) or 3 units in 1B (IGETC) in the AREAs designated in the CSUGE and IGETC columns.

Certificate of Achievement in Cosmetology

Effective Fall 2016

Division: Special Programs - Cosmetology

This certificate prepares students for entry-level employment in the field of Cosmetology. Students completing this certificate will acquire skills, knowledge, and abilities in shampooing, tinting, bleaching, cutting, styling hair, manicures, scalp and facial treatments, makeup analysis, and eyebrow shaping. In addition to practical experience students also learn anatomy, physiology, chemical composition of skin and nails, and disorders and diseases of the skin, scalp, and hair.

PROGRAM OUTCOMES:

At the end of this program, students will be prepared to take the licensing exam administered by the Department of Consumer Affairs Board of Barbering and Cosmetology.

EMPLOYMENT OPPORTUNITIES: Upon successful completion of this certificate, students will be prepared for employment in the following fields: Cosmetologist, Beautician, Beauty Shop Owner, Electrologist, and Manicurist. Passing the State Board of Barbering and Cosmetology Licensing Exam is required. The certificate requires 1600 hours to complete.

		Units
1.	REQUIRED CERTIFICATE COURSES:	
A.	COSM 261 Basic Cosmetology	6-15
B.	COSM 262 Intermediate Cosmetology	6-15
C.	COSM 263 Cosmetology Theory & Practice	6-15
D.	COSM 264 Cosmetology License Exam Prep	6-15
	Required Certificate Units:	24-60

Students must complete a minimum of 140 hours per semester in order to receive six (6) units of credit. Additional hours attended will result in additional units based on 52.5 equals one (1) unit. Students may attend a maximum of four (4) semesters which would include COSM 261, COSM 262, COSM 263, AND COSM 264. The maximum number of hours a student may attend is 1,600 or four (4) semesters, whichever is less.

Minimum 140 hours = Six (6) units of credit.

Minimum 192.5 hours = Seven (7) units of credit

Minimum 245 hours = Eight (8) units of credit

Minimum 297.5 hours = Nine (9) units of credit

Minimum 350 hours = Ten (10) units of credit

Minimum 402.5 hours = Eleven (11) units of credit

Minimum 455 hours = Twelve (12) units of credit

Minimum 507.5 hours = Thirteen (13) units of credit

Minimum 560 hours - Fourteen (14) units of credit

Minimum 612.5 hours - Fifteen (15) units of credit

Total Units:	24-60
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The Certificate of Achievement requirements include completion of the certificate courses with a "C" or better grade in each course. Required and support courses may be substituted with the approval of the Special Programs-Cosmetology Division Chair.

Certificate of Achievement in POST Certified Basic Police Academy*

Effective Spring 2017

Division: Special Programs

This certificate prepares students for entry-level employment in the field of POST Certified Basic Police Academy. Students completing this certificate will acquire basic skills including training in firearms, emergency drivers training, chemical agents, officer survival, community policing, patrol procedures, investigations, traffic enforcement, cultural awareness, and criminal law.

PROGRAM OUTCOMES:

- Understand the material in each of forty-three learning domains.
- Demonstrate the ability to handle simulated calls for police services.
- Demonstrate competency in combat shooting principles and tactics using a handgun, shotgun, and tactical rifle.
- Demonstrate the ability to drive a law enforcement vehicle and to safely drive and control the vehicle while operating under emergency response (Code 3) conditions.

1. REQUIRED CERTIFICATE COURSES:		Units
A.	PS 200M3 Basic Police Academy, Module 3	6 - 7.5
B.	PS 200M2 Basic Police Academy, Module 2	8.5 - 11.5
C.	PS 200M1 Basic Police Academy, Module 1	13.5 - 17
Total Certificate Units:		28 - 36

ALL APPLICANTS MUST:

- Be in good physical health.
- Be certified by a doctor to participate in a strenuous physical activity program.
- Have a high school diploma (GED).
- Be over 18 years of age.
- Have no felony convictions.
- Pass the academy pretest.
- Have a California Department of Justice Fingerprint Clearance to possess a firearm.

ADDITIONAL INFORMATION:

Prerequisite: Passing score on the POST Entry Level Reading and Writing Test. This is a standardized examination administered at the College by the State of California Commission on Peace Officer’s Standards and Training.

A **materials fee** and **EVOC fee** are charged in addition to normal college fees. Interested persons should contact the law enforcement training department (559) 583-2600, prior to registering for the course and for details of the application process.

*Program requirements are for students enrolled in the Spring 2017 term. Students enrolled in the Fall 2016 term, refer to page 276 for program requirements.

The Certificate of Achievement requirements include completion of the certificate courses with a “C” or better grade in each course. Required and support courses may be substituted with the approval of the Special Programs Division Chair.

Associate in Arts in Kinesiology for Transfer (AA-T) Degree

Effective Spring 2017

Division: Physical Education

Students completing the Associate in Arts in Kinesiology for Transfer Degree will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Kinesiology. Students completing Kinesiology for Transfer (AA-T) degree will have an introductory foundation for the field of Kinesiology through the study of biomechanics, exercise physiology, theory and analysis, prevention, care and rehabilitation of sport injury. Students will acquire skills in analysis and assessment of human movement and the internal environment of the human body through a variety of activities and development of a program related to a specific condition.

PROGRAM OUTCOMES:

- Identify and relate anatomical, physiological, and biomechanical systems to physical activity and sport.
- Understand the philosophical aspects involved in the various aspects of Kinesiology and sport, and apply such knowledge to their daily lives and possible occupations.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in Kinesiology for Transfer (AA-T) Degree is intended to meet the lower division requirements for Kinesiology for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: athletic trainer, physical education teacher, exercise physiologist, pre-requisite for a doctoral program in physical therapy.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:*			
A. California State University GE (CSU GE)	39		
B. Intersegmental GE Transfer Curriculum (IGETC-CSU)**	37		
General Education Units:	37-39		

Required major courses that may double count for specific CSUGE and IGETC AREAs are designated in the CSUGE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSUGE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

2. REQUIRED MAJOR COURSES:

A. BIOL 030	Human Anatomy	4	B2,B3	5B, 5C
B. BIOL 031	Human Physiology	4		
C. KINE 001	Introduction to Kinesiology	3		
	Required Major Courses Units:	11		

3. REQUIRED MOVEMENT BASED COURSES: Select a maximum of one course from the following areas for a minimum of three units:

DANCE				
DANC 050	Ballet 1	1		
DANC 054	Modern Dance 1	1		
DANC 058	Jazz Dance 1	1		
DANC 062	Tap Dancing 1	1		
DANC 070	Hip Hop	1		
AQUATICS				
PEAC 008	Beginning Swimming	1		
PEAC 009	Intermediate Swimming	1		
PEAC 011	Swimming for Fitness	1		

(continued on next page)

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average as well as a "C" or better in all courses required for the major (see **Transfer Information and Requirements** section for additional detail).

* Course(s) meets General Education requirement and 6-9 units may be double counted above in 1A (CSUGE) or 7-10 units in 1B (IGETC) in the AREAs designated in the CSUGE and IGETC columns.

** IGETC-CSU requires completion of IGETC AREA 1C.

Associate in Arts in Kinesiology for Transfer (AA-T) Degree

Division: Physical Education

(continued from previous page)

		Units	CSU GE AREA	IGETC AREA
FITNESS				
PEAC 001	Aerobic Conditioning	1		
PEAC 002	Non-Impact Aerobics	1		
PEAC 003	Step Aerobics	1		
PEAC 004	Circuit Training	1		
PEAC 036	Stretch and Tone	1		
PEAC 037	Pilates Mat Class	1		
PEAC 038	Introduction to Yoga	1		
PEAC 039	Hatha Yoga Fundamentals	1		
PEAC 070	Walk/Jog for Aerobic Fitness	1		
PEAC 074	Beginning Weight Training	1		
PEAC 075	Intermediate Weight Training	1		
 INDIVIDUAL SPORTS				
PEAC 052	Beginning Tennis	1		
PEAC 053	Intermediate Tennis	1		
 TEAM SPORTS				
PEAC 015	Fundamentals of Baseball	1		
PEAC 021	Beginning Basketball	1		
PEAC 022	Intermediate Basketball	1		
PEAC 025	Fundamentals of Football	1		
PEAC 042	Soccer	1		
PEAC 064	Beginning Volleyball	1		
PEAC 065	Intermediate Volleyball	1		
	Required Movement Based Courses Units:	3		
 3. RESTRICTED ELECTIVES: Select two courses (minimum six units) for the following:				
SSCI 025	Statistics - Social Sciences	4	B4	2A
or MATH 021	Introduction to Statistics	4	B4	2A
HW 003	First Aid/CPR/AED	3		
PHYS 020	General Physics 1	5	B1, B3	5A, 5C
or PHYS 055	Physics 1: Mechanics & Waves	5	B1, B3	5A, 5C
CHEM 001	General Chemistry 1	5	B1, B3	5A, 5C
	Restricted Electives:	7-10		
 4. ELECTIVES:				
	Select additional transferable courses numbered 1-199 to achieve 60 units.			
	Elective Units:	6-10		
	Total Units:	60		

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average as well as a "C" or better in all courses required for the major (see **Transfer Information and Requirements** section for additional detail).

* Course(s) meets General Education requirement and 6-9 units may be double counted above in 1A (CSUGE) or 7-10 units in 1B (IGETC) in the AREAs designated in the CSUGE and IGETC columns.

** IGETC-CSU requires completion of IGETC AREA 1C.

Associate in Arts in Elementary Teacher Education for Transfer (AA-T)

Effective Spring 2017

Division: Consumer Family Studies

Students completing the Associate in Arts in Elementary Teacher Education for Transfer will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Liberal Arts and an Elementary Teacher Education Credential. Students completing this degree will have an introductory foundation for the field of Elementary Teacher Education through the study of the study of facts, principles and theories in the arts and humanities, social and behavioral sciences, biological and physical sciences, mathematics, English composition and literature and communication studies. Students will acquire skills and abilities in multiple disciplines, explore how knowledge across disciplines can be connected, analyze and evaluate ideas using the tools of critical thinking, and demonstrate effective communication skills in reading, writing, listening and speaking.

PROGRAM OUTCOMES:

- Demonstrate professional interpersonal, verbal communication and written skills.
- Demonstrate an understanding of the current issues in elementary education.
- Articulate awareness, respect, sensitivity, and understanding needed for culturally responsible teaching in a diverse, local and global society.
- Demonstrate a basic grasp of the disciplines most commonly taught in elementary schools
- Clarify and articulate career goals of becoming a teacher.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Arts in Elementary Teacher Education for Transfer (AA-T) Degree is intended to meet the lower division requirements for Liberal Arts/Elementary Teacher Education for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: classroom aide, substitute teaching, museum education, not-for-profit, preparation for teaching credential program.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:*			
A. California State University GE (CSU GE)	39		
B. Intersegmental GE Transfer Curriculum (IGETC-CSU)**	37		
General Education Units:	37-39		

Note: Completion of the Required Courses and Restricted Electives also meets all transfer general education requirement except the following: CSU GE AREA B1 (Physical Science); and IGETC AREA 2 (Math) and AREA 5A (Physical Science).

2. REQUIRED MAJOR COURSES:

A. EDUC 050	Introduction to Teaching	3		
B. NSCI 131	Chem. & Physics for Educators	4		
C. ESCI 001	Introduction to Earth Science	4		
D. BIOL 020	Frontiers in Biology	4	B2, B3	5E
E. COMM 001	Fundamentals/Public Speaking	3	A1	1C
F. ENGL 001	College Reading & Composition	4	A2	1A
G. ENGL 004	Composition and Literature	3	C2	3B
H. MATH 010	Structures and Concepts 1	4	B4	
I. GEOG 002	World Regional Geography	3	D5	4E
J. POLS 005	Federal, State and Local Govt	3	D8	4H
K. HIST 017	People of the US to 1877	3	C2, D6	3B, 4F
L. HIST 025	World History to 1500	3	C2, D6	3B, 4F
M. CHLD 039	Child Development-DS 1	3	D9, E	4I
	Required Major Courses Units:	44		

(continued on next page)

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average as well as a "C" or better in all courses required for the major (see **Transfer Information and Requirements** section for additional detail).

* Course(s) meets General Education requirement and 36 units may be double counted above in 1A (CSUGE) or 31units in 1B (IGETC) in the AREAs designated in the CSUGE and IGETC columns.

** IGETC-CSU requires completion of IGETC AREA 1C.

Associate in Arts in Elementary Teacher Education for Transfer (AA-T)

Division: Consumer Family Studies

(continued from previous page)

		Units	CSU GE AREA	IGETC AREA
3. RESTRICTED ELECTIVES - LIST A: Select one course from the following:				
ENGL 002	Logic and Composition	3	A3	1B
PHIL 025	Critical Thinking	3	AB	1B
	Restricted Electives - List A Units:	3		
4. RESTRICTED ELECTIVES - LIST B: Select one course from the following:				
ART 001	Art Appreciation	3	C1	3A
MUS 010	Music Appreciation	3	C1	3A
DRAM 001	Intro to the Theatre	3	C1	3A
	Restricted Electives - List B Units:	3		
5. ELECTIVES:				
Select additional transferable courses numbered 1-199 to achieve 60 units. It is recommended that students complete the CSU GE (instead of the IGETC) which allows for 7 units of electives. It is further recommended that students complete MATH 11 (Structures and Concepts 2) and EDUC 120 (Technical Skills for Educators) to fulfill the 7 unit elective requirement.				
	Elective Units:	4-7		
	Total Units:	60		

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average as well as a "C" or better in all courses required for the major (see **Transfer Information and Requirements** section for additional detail).

* Course(s) meets General Education requirement and 36 units may be double counted above in 1A (CSUGE) or 31units in 1B (IGETC) in the AREAs designated in the CSUGE and IGETC columns.

** IGETC-CSU requires completion of IGETC AREA 1C.

Associate in Science in Chemistry for Transfer (AS-T)

Effective Spring 2017

Division: Science

Students completing the Associate in Science in Chemistry for Transfer will be able to seamlessly transfer into the CSU system to pursue a baccalaureate degree in Chemistry. Students completing this degree will have an introductory foundation for the field of Chemistry through the study of atomic structure, thermodynamics, orbital theory, inorganic and organic chemistry, reaction mechanisms, stoichiometry, instrumentation and laboratory protocol. Students will acquire skills and abilities in using standard laboratory equipment, evaluating data and critically assessing conclusions, learning and applying scientific concepts and developing critical thinking skills.

PROGRAM OUTCOMES:

At the end of this program, students will have advanced their competency in lab. They will be able to use laboratory equipment to collect data accurately and interpret laboratory data.

At the end of this program, students will be able to apply a concept they have learned to a specific application and/or problem that they have not practiced.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Science in Chemistry for Transfer (AS-T) Degree is intended to meet the lower division requirements for chemistry for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: chemical lab technician, water purification technician, quality control coordinator, and general laboratory work.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following.*			
A. Intersegmental GE Transfer Curriculum (IGETC-CSU)**	31		
General Education Units:	31		
Note: This 31 unit IGETC for STEM Majors GE pattern is the only GE option available that allows compliance with the 60 unit AS-T program maximum. One less course (3 units) is required in AREA 3 (Arts and Humanities) and one less course (3 units) is required in AREA 4 (Social and Behavioral Sciences).			
2. REQUIRED MAJOR COURSES:			
A. CHEM 001 General Chemistry 1	5	5A, 5C	
B. CHEM 002 General Chemistry 2	5		
C. CHEM 012 Organic Chemistry 1	5		
D. CHEM 013 Organic Chemistry 2	5		
E. MATH 065 Calculus 1	4	A1	
F. MATH 066 Calculus 2	4		
G. PHYS 055 Physics 1: Mechanics & Waves	4		
H. PHYS 056 Physics 2: E&M and Heat	4		
Required Major Course Units	36		
Total Units:	60		

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average as well as a "C" or better in all courses required for the major(see Transfer Information and Requirements section for additional detail).

* Course(s) meets General Education requirement and 7 units may be double counted above in 1A (IGETC) in the AREAs designated in the IGETC column.

** IGETC-CSU requires completion of IGETC AREA 1C.

Associate in Science in Agriculture Plant Science for Transfer (AS-T)

Effective Spring 2017

Division: Agriculture

Students completing the Associate in Science in Agriculture Plant Science for Transfer will be able to seamlessly transfer into the CSU system to pursue a baccalaureate degree in Agriculture Plant Science. Students completing this degree will have an introductory foundation for the field of Agriculture Plant Science through the study of soil science, agricultural economics, plant science and plant propagation. Students will acquire skills and abilities in soil sampling and testing, developing an operations budget, identifying common crops in the San Joaquin Valley, describing common propagation practices in production agriculture, demonstrating safe work practices and operating farm machinery.

PROGRAM OUTCOMES:

- Identify food and fiber crops in the San Joaquin Valley and their economic importance to the local and state economy.
- Understand the relationships between plant, soil, and water, and their impact on plant health, nutrition and the environment.

TRANSFER & CAREER OPPORTUNITIES: This Associate in Science in Agriculture Plant Science for Transfer (AS-T) Degree is intended to meet the lower division requirements for Agriculture Plant Science for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: farm manager, research assistant, farm sales and service, propagation manager, and pest control advisor.

	Units	CSU GE AREA	IGETC AREA
1. GENERAL EDUCATION: Complete one of the following:*			
A. California State University GE (CSU GE)	39		
B. Intersegmental GE Transfer Curriculum (IGETC-CSU)**	37		
General Education Units:	37-39		

Required major courses that may double count for specific CSUGE and IGETC AREAs are designated in the CSUGE and IGETC columns. Completion of the CSU Graduation Requirement in U.S. History, Constitution & American Ideas (POLS 5 and HIST 17 or 18) prior to transfer is required for CSUGE and recommended for CSU bound students utilizing IGETC and is reflected in the double counting designations.

2. REQUIRED MAJOR COURSES:

A. AG 004	Soil Science	3		
B. AGMT 001	Agriculture Economics	3	D2	4B
C. MATH 021	Introduction to Statistics	4	B4	2A
D. PLSI 001	Intro to Plant Science	3	B2	
E. CHEM 020	Intro to General Chemistry	4	B1, B3	5A
	Required Major Course Units	17		

3. RESTRICTED ELECTIVES: Select one of the following courses:

A. AGTC 103	Farm Power	3		
B. OH 002	Plant Identification 1	3		
C. OH 003	Plant Identification 2	3		
D. OH 105	Plant Propagation	3		
	Required Major Course Units	3		

4. ELECTIVES:

Select additional transferable courses numbered 1-199 to achieve 60 units.

Elective Units:	13
Total Units:	60

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average as well as a "C" or better in all courses required for the major(see Transfer Information and Requirements section for additional detail).

*Course(s) meets General Education requirement and 12 units may be double counted above in 1A (CSUGE) or 10 units in 1B (IGETC) in the AREAs designated in the CSUGE and IGETC columns.

** IGETC-CSU requires completion of IGETC AREA 1C.

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