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Eureka Campus

7351 Tompkins Hill Road
Eureka, CA 95501-9300
Call 707-476-4100
TTY Machine 707-476-4440
FAX 707-476-4400
Call Toll Free 800-641-0400

Del Norte Education Center

883 W. Washington Boulevard
Crescent City, CA 95531
Call 707-464-7457
TTY Machine 707-465-2355
FAX 707-464-6867

**Community Education & Business
Training Center
(Eureka Downtown)**

525 D Street
Eureka, CA 95501
Call 707-476-4500
FAX: 707-443-3417

**Adult Education
(Eureka Oldtown)**

310 3rd Street, Suite C
Eureka, CA 95501
Call 707-476-4520

Klamath-Trinity Instructional Site

P.O. Box 529/65 Orchard Road
Hoopa, CA 95546
Call 530-625-4846
TTY Machine 530-625-5556
FAX 530-625-0086

Garberville Instructional Site

286 Sprowl Creek Road
Garberville, CA 95542

www.redwoods.edu
enrollment-services@redwoods.edu



COLLEGE OF THE
Redwoods
CATALOG
of Information & Courses

CATALOG DISCLAIMER:

The College reserves the right to amend, modify or otherwise revise any provision in this catalog for reasons including but not limited to:

1. Change in State Law, Education Code, Title 5 or other governing regulations pursuant to the operation of the College.
2. Changes in Board of Trustees Policy or Administrative Regulations.
3. Changes relating to funding, fees, instruction, support services or staffing of the college or any program or course thereof.

These changes may be made without prior notice and may supersede this publication or portion thereof.

CONSUMER INFORMATION.

In accordance with the Higher Education Act of 1965, Amended 2008, information about College of the Redwoods can be found <http://www.redwoods.edu/aboutcr/consumer-information>. To request a paper copy, contact the Admissions & Records Office at 707-476-4200.

PRESIDENT'S WELCOME



Welcome to College of the Redwoods, an exceptional learning environment in which students gain the knowledge and skills they need to be successful. We are committed to providing students an opportunity to achieve their educational goals by offering programs and services designed for students who plan to seek a transfer degree, train for immediate employment or transition to a new career.

As a learning community, we strive to deliver quality education while ensuring that our students remain our top priority. College of the Redwoods offers an environment that allows students to feel challenged, supported and determined—an environment in which you can thrive and succeed.

I invite you to visit the Eureka campus or one of our district-wide educational centers or sites as you make your choice for higher education. I am confident that when you visit, you will discover what makes College of the Redwoods a first-class comprehensive community college.

We look forward to making a positive difference in your life and to you becoming a successful graduate of College of the Redwoods.

Keith Snow-Flamer
President/Superintendent

Board of Trustees

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Klamath-Trinity/Del Norte

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Vice President, Instruction & Student Development

Wendy Bates, M.B.A.
Director, Human Resources/EEO

Facilities

The College is a multisite, single-college district offering instruction at the Eureka main campus, the Del Norte Education Center in Crescent City, and several additional instructional sites where courses and programs are offered to serve the educational needs of Humboldt, Del Norte, and western Trinity counties.

Eureka Campus

7351 Tompkins Hill Rd., Eureka, CA 95501
www.redwoods.edu/

The Eureka main campus serves approximately 7,000 students and is located on a 270-acre site seven miles south of the city of Eureka. The college's full range of university transfer, professional, personal enrichment, and community education programs are available on the Eureka campus.

Del Norte Education Center

883 W. Washington Blvd., Crescent City, CA 95531
707-464-7457 | www.redwoods.edu/delnorte/

The Del Norte Education Center serves approximately 1,000 students and is located on a 34-acre site in Crescent City, 80 miles north of Eureka and 20 miles south of the Oregon border. The Del Norte Education Center offers university transfer programs as well as specific degree and/or certificate programs in Addiction Studies, Business, Corrections, Early Childhood Education, Liberal Arts (with several areas of emphasis), and Licensed Vocational Nursing, along with community education classes.

Garberville Instructional Site

286 Sprowl Creek Road, Garberville, CA 95542
www.redwoods.edu/garberville

The Garberville Instructional Site offers credit, Adult Education and community education classes to serve the Southern Humboldt Community.

Klamath-Trinity Instructional Site

65 Orchard St., Hoopa, CA 95546 | 530-625-4821
www.redwoods.edu/KlamathTrinity

The Klamath-Trinity Instructional Site is located approximately 40 miles northeast of Eureka, on the Hoopa Valley Indian Reservation.

Community Education & Business Training Center

(Eureka Downtown)

525 D Street, Eureka, CA 95501
707-476-4500 | www.redwoods.edu/communityed

Community & Economic Development provides a wide range of educational opportunities throughout the region. Classes, programs, training and workshops are offered as lifelong learning and professional development opportunities. The not-for-credit classes are designed to develop professional skills, enhance career opportunities, enrich personal knowledge, and promote cultural and academic growth. Adult Education classes are also taught at this location.

Adult Education

(Eureka Oldtown)

310 3rd Street, Suite C, Eureka, CA 95501
707-476-4520 | www.redwoods.edu/adulted

College of the Redwoods Adult Education offers classes and programs at numerous locations throughout Humboldt and Del Norte Counties. Programs are designed to increase educational attainment and career success by providing the preparation and skills needed for employment, continuing education, and personal growth.

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ABOUT THE COLLEGE

Accreditation Statement

College of the Redwoods is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, located at 10 Commercial Boulevard, Suite 204, Novato, CA 94949, (415) 506-0234, an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education.

Designated lower-division, baccalaureate-level courses at the College of the Redwoods are approved for transfer to all branches of the University of California (UC) and to all of the California State Universities (CSU). College of the Redwoods is approved for the education of veterans under the provisions of public law.

Vision

College of the Redwoods is a learning community where lives are transformed.

District Mission

College of the Redwoods puts student success first by providing accessible and relevant developmental, career technical, and transfer education. The College partners with the community to contribute to the economic vitality and lifelong learning needs of its service area. The College continually assesses student learning and institutional performance and practices to embrace diversity, to encourage a healthy community environment and to improve upon the programs and services we offer, all to promote student learning.

*BP 1200

*BP = Board of Trustees Policy

Values

Student Success and Access: We put students first, ensuring that student learning, advancement, and access are pivotal to all we do.

Educational Excellence and Innovation: We value ongoing and systematic planning and evaluating methods that move us toward excellence.

Honoring Diversity: We value all members of our community and strive to create a diverse, nurturing, honest, and open environment.

Participatory Governance: We value ethical behavior and strive to create a culture where all students, staff, faculty and administrators engage in inclusive, ongoing and self-reflective decision-making processes.

Environmental Awareness: We value the environment and the need to minimize our impacts upon it, utilizing sustainable practices and acting as global citizens.

Community Development: We value the economic and intellectual development of the various communities we serve.

Supportive Culture: We strive to create a supportive, problem-solving culture, and we recognize the proven usefulness of an interest-based approach (IBA) for achieving trust, cooperation and effective problem solving.



Philosophy

The primary objective of the College is the success of each student. We consider education to be a process of intellectual and physical exploration that rests upon the mutual responsibility of the College and the student.

We recognize the dignity and intrinsic worth of the individual and acknowledge that individual needs, interests, and capacities vary.

In fulfilling these objectives and principles, we affirm our intention:

1. To provide the highest possible level of learning opportunities and counseling to help students realize their personal goals;
2. To provide opportunities for development of moral values and ethical behavior;
3. To enhance self-esteem and a sense of individual responsibility; and
4. To instill an appreciation of the values and contributions of other cultures and increase global understanding among all students.

We will continuously seek and support a dedicated, highly qualified staff that is diverse in terms of cultural background, ethnicity, and intellectual perspective and that is committed to fostering a climate of academic freedom and collegiality. We will encourage and reward professional development for all staff and will all share in the responsibility for student outcomes.

College of the Redwoods affirms its responsibility to address the diverse civic needs of the many communities we serve and to provide leadership in the civic, cultural, and economic development of the North Coast region.

BP 1201

Institutional Learning Outcomes

Institutional Learning Outcomes (ILOs) encompass the whole student experience and apply to the whole institution. The ILOs represent a broad cross-section of campus learning related to the student experience. The outcomes include the knowledge, skills, abilities and attitudes that students are expected to develop as a result of their overall experiences with any aspect of the college, including courses, programs and service areas.

1. Academic and Career Technical Objectives

Students will successfully acquire program outcomes and complete degrees and/or certificates.

The outcome indicates if the objectives stated for degrees and/or certificates are being met.

Students earning degrees will acquire the College's general education outcomes: Effective Communication, Critical Thinking, and Global/Cultural Context.

2. Personal and Professional Development

Students will reach their career, transfer, or personal goals. The outcome indicates if a student's individual goals are being met. This includes the goals of students earning degrees, or of students taking only a few courses for training and/or personal enrichment.

3. Community and Global Responsibility

Students will develop the awareness and skills needed to contribute to local and global communities. The outcome indicates if students recognize ways to contribute to their community and the value of effectively engaging in cross-cultural environments.

Academic Freedom

The Board of Trustees and the Academic Senate of the Redwoods Community College District, in an effort to promote and protect the academic freedom of faculty and students, endorse the following policy.

It is the responsibility of the Redwoods Community College District to provide an institutional environment that encourages academic freedom and instills respect and commitment to the obligations required to maintain these freedoms.

Academic freedom represents the continual search for truth, and it includes protection for the teacher to teach and for the student to learn without coercion, censorship, or other forms of restrictive interference. Academic freedom recognizes that freedom to teach and freedom to learn imply both rights and responsibilities within the framework of the law. Free discussion and free access to information, therefore, are the heart of the continuing search for truth.

Academic freedom is the freedom to discuss all relevant matters in and outside of the classroom, to explore all avenues of scholarship, research, and creative expression. When faculty members speak or write as citizens, thereby exercising their constitutional right of free speech, it should be as persons who are free from institutional censorship or discipline. With academic freedom comes academic responsibility which implies the faithful performance of professional duties and obligations, the recognition of the demands of the scholarly enterprise, and the candor to make it clear that when one is speaking on matters of public interest, one is not speaking for the institution.

BP 4030

COLLEGE CALENDAR

Fall Semester 2017

Convocation	08/24/17 – 08/25/17
Flex Days.....	08/24/17 – 08/25/17
Last Day to Register for classes	08/25/17
Semester Begins	08/26/17
Last Day to Add a Class.....	09/01/17
All-College Holiday (<i>Labor Day</i>).....	09/04/17
Last Day to Drop and Receive a Refund	09/08/17
Last Day to Drop Without a “W”	09/08/17
Census Day	09/11/17
Last Day to File P/NP Option	09/22/17
Last Day to Petition to Graduate or Apply for a Certificate.....	10/26/17
Last Day for Student- or Faculty-Initiated Drop.....	11/03/17
All-College Holiday (<i>Veterans Day</i>).....	11/10/17
All-College Holiday (<i>Thanksgiving</i>)	11/23/17 - 11/24/17
No Classes	11/25/17
Final Exams.....	12/11/17 - 12/16/17
Police Academy Graduation	12/16/17
Semester Ends	12/16/17
Winter Break (<i>Faculty</i>)	12/18/17 - 1/10/18
Grades Due.....	12/23/17
All-College Holiday (<i>Winter Holiday</i>).....	12/25/17 - 12/29/17
All-College Holiday (<i>New Year’s Day</i>)	01/01/18
Grades Available (<i>Estimated</i>).....	01/05/18

Spring Semester 2018

Flex Days.....	01/11/18 - 01/12/18
Last Day to Register for classes	01/12/18
Semester Begins	01/13/18
All-College Holiday (<i>Martin Luther King, Jr.’s Birthday</i>)	01/15/18
Last Day to Add a Class.....	01/19/18
Last Day to Drop and Receive a Refund	01/26/18
Last Day to Drop Without a “W”	01/26/18
Census Day	01/29/18
Last Day to File P/NP Option	02/09/18
No Classes (<i>Lincoln’s Birthday</i>)	02/16/18
All-College Holiday (<i>President’s Day</i>)	02/19/18
Last Day to Petition to Graduate or Apply for a Certificate.....	03/01/18
No Classes (<i>Spring Break</i>).....	3/12/18 - 03/16/18
Last Day for Student- or Faculty-Initiated Drop.....	03/30/18
Final Exams.....	05/07/18- 05/11/18
Semester Ends	05/11/18
Commencement - Del Norte	05/11/18
Commencement - Eureka	05/12/18
Commencement - Klamath-Trinity	05/12/18
Grades Due.....	05/18/18
Grades Available (<i>Estimated</i>).....	05/25/18
All-College Holiday (<i>Memorial Day</i>)	05/28/18
Police Academy Graduation	06/14/18

Summer Session 2018

Summer 2018 Calendar to be determined

View more dates and events at www.redwoods.edu/Events

AUGUST 2017						
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FEBRUARY 2018						
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SEPTEMBER 2017						
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MARCH 2018						
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OCTOBER 2017						
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MAY 2018						
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JUNE 2018						
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JANUARY 2018						
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JULY 2018						
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LEGEND

-  Classes Begin
-  Classes End
-  Holiday
-  Flex Day
-  Final Exams
-  Commencement
-  No Classes/Break
-  Convocation

AUGUST 2018						
S	M	T	W	T	F	S
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25	26	27	28	29	30	31

BECOMING A CR STUDENT

As an open-access community college, the Redwoods Community College District welcomes students from a variety of different backgrounds and experiences.

High School Graduates

Anyone who has a high school diploma or the equivalent is eligible to enroll at College of the Redwoods.

Non-High School Graduates

Any person who is at least 18 years of age who does not have a high school diploma, but is able to benefit from college-level instruction may also enroll.

Younger Students

Students enrolled in the 9th through 12th grades may be approved to take up to eleven units of college courses for college credit at College of the Redwoods. All students must complete the "Concurrent Enrollment of High School Student" form for each semester for which they intend to register.

Degree-Seeking & Transfer Students

Students who have attended another regionally-accredited college may transfer to College of the Redwoods with advanced standing, depending on the outcome of an incoming official transcript evaluation. Students must contact the Advising Office for an evaluation. All transcripts submitted become the permanent property of College of the Redwoods and copies of these transcripts cannot be forwarded elsewhere or released to students. These transcripts can be used by authorized College of the Redwoods personnel only.

Students wishing to apply prior college credit to their CR degree **are required** to submit official transcripts from post-secondary institutions previously attended.

If you have never attended college before, you are required to complete the math and English placement process before you register for classes. Placement results help to determine which courses are appropriate for your skill level. You must have your student ID number prior to participating in the placement process.

Student Success Initiative

The Student Success Task Force recommended 22 specific policy changes to improve educational achievement in the California Community Colleges. These recommendations would strengthen the community college system by expanding those structures and programs that work and realigning our resources with what matters most: student achievement.

Beginning Fall 2014, new students who have completed college orientation, assessment and developed education plans as well as continuing students in good academic standing with developed education plans, and who have not exceeded 100 units will have priority registration over students who do not meet these criteria. Among these students, active-duty military, veterans, and current and former foster youth, students in Extended Opportunity Programs and Services, Disabled Students Programs and Services, and CalWORKs will continue to have first call on courses.

International Students

Every effort will be made to provide international students with general information about the college and the local area before and upon their arrival at the college. Information about initial enrollment and special regulations that may pertain to international students may be obtained at www.redwoods.edu/admissions/guide/International-Students

Determining Residency

California Residency

Each California college is charged with determining which students qualify to pay in-state fees. Generally speaking, to qualify as a resident of the State of California, students must have lived in California for more than one year prior to the first day of the term in which they wish to enroll. In addition, they must demonstrate that they have intended to make California their permanent residence for more than one year, and will be asked to provide the college with documentation required to make such a determination. Military personnel, public school employees, state employees and certain other persons may be exempt from

residence requirements or may qualify to pay in-state fees by virtue of being the subject of special legislation. To avoid disappointment or confusion at the last minute, it is important that students have their residency status determined well in advance of the start of the term in which they wish to enroll.

Out-of-State Residents

Prospective students whose legal residence is outside the state of California will be required to pay non-resident tuition in addition to the California enrollment fees. AB 540/AB200 Waiver: If you are not a California resident, but attended a California high school or elementary school for three years or more and graduated from a California high school (or received a GED or the equivalent), you may qualify for a waiver of non-resident tuition. Please see page 10 for further information.

Oregon Exchange Program

College of the Redwoods has made reciprocal agreements with two Oregon colleges to allow eligible CR students to attend Oregon colleges and eligible Oregon residents to attend College of the Redwoods at reduced rates. Participating colleges are: Oregon Institute of Technology (OIT) and Southern Oregon University (SOU). Oregon residents who wish to enroll in any course at College of the Redwoods under this program must sign an agreement indicating that, if a California resident student is displaced from a class, the exchange student will voluntarily drop the course. More information may be obtained at www.redwoods.edu/admissions.



ENROLLMENT

The process of becoming a student at College of the Redwoods

1. APPLY

A completed application is required of all new students as well as from students returning to College of the Redwoods after missing two or more semesters. The application is available on the CR website at www.redwoods.edu/admissions/GetStarted. The following documents may also be required:

G.E.D. or High School Equivalency Certificate:

Students under 18 years of age who are not enrolled in high school and have not obtained a high school diploma must provide a copy of one of these certificates prior to initial enrollment.

Transcripts of Previous College Work:

If students have attended another college, official transcripts must be ordered as soon as possible, as it can be four weeks or more before the College receives them. If evaluation of these transcripts is needed to meet prerequisites, the student must request transcripts to be evaluated using the form available at www.redwoods.edu/admissions; evaluation can take up to two weeks.

2. COMPLETE THE ENGLISH & MATHEMATICS PLACEMENT PROCESS

The placement process for English and mathematics is required in order to assure that students take classes at the level that is most appropriate for their current skill sets. Placement is a key factor in student success.

Placement Testing is required for students who plan to:

- pursue a degree or certificate;
- pursue a transfer program;
- take a course that has a Mathematics or English prerequisite; or
- qualify for priority registration.

New and returning students may be exempt from taking the English and/or Mathematics Placement Test by satisfying one of the following:

- Completion of a comparable state-approved placement test at Humboldt State University, College of the Redwoods, or another California Community College within the past three years.
- Completion of an English and/or mathematics course with a grade of "C" or higher from any regionally-accredited college.
- Earning a score of "3", "4", or "5" on the College Entrance Examination Board Advanced Placement (AP) Exam in English and/or mathematics.
- Earning scores of 4 or better on an International Baccalaureate Mathematics Exam (Mathematical Studies SL, Mathematics HL) or English Exam (English A1 or English A2) – See Page 19 of the Catalog.
- Earning a status of "Ready" in English Arts/Literacy and/or Mathematics on the California Assessment of Student Performance and Progress (CAASPP) as part of the California State University (CSU) Early Assessment Program (EAP).
- Earning a status of "Conditionally Ready" in Mathematics on the California Assessment of Student Performance and Progress (CAASPP) as part of the Early Assessment Program (EAP) **AND** submitting transcripts showing completion of two semesters of mathematics with grades of "C" or higher taken during the senior year of high school in one of the following courses:
 - Algebra 2
 - Integrated Math 3, or a higher-level mathematics course.
- Earning a status of "Conditionally Ready" in English/Language Arts on the California Assessment of Student Performance and Progress (CAASPP) as part of the Early Assessment Program (EAP) **AND** submitting transcripts showing completion of two semesters of English with grades of "C" or higher taken during the senior year of high school in one of the following courses:
 - Expository Reading & Writing Course (ERWC)
 - AP Literature/Composition
 - Weighted Honors English
 - IB English

Students who are unable to complete one of these English courses during the senior year may submit proof of their EAP "conditionally ready" score to be placed into a CR English course one level below college-level. (Students may take this course concurrently while still in high school to enter CR ready for college-level English.)

Placement Testing Process

1. Schedule a Test

Schedule placement testing in advance by calling the testing site or emailing asc-staff@redwoods.edu.

2. Review

Review before taking the English and/or Mathematics Placement Test in order to assure placement results commensurate with your abilities and to avoid placement requiring you to repeat material you already know.

For information on resources to help you review, call the Academic Support Center (ASC) or visit the website at www.redwoods.edu/asc/Schedule.

3. At the Time of the Test

Present a current photo ID at the time of testing.

Accommodations are available for students with disabilities. Schedule accommodations in advance to ensure appropriate arrangements are reserved.

4. After the Test

Placement Test results are available immediately after testing.

Students are strongly encouraged to meet with a counselor following the Placement Test to discuss results and learn about course options.

Multiple Measures

Other indicators that could be considered together with Placement Test results to determine the most suitable mathematics and/or English and/or ESL placement may include:

- Any prior college experience;
- Highest level of English and mathematics completed at prior college(s);
- The student's previous success at the college level, as reflected
- in his/her transcripts;
- The student's past study habits;
- The number of employment-related and family obligations the student has; and
- The strength of the student's motivation to achieve his/her educational goal(s)

Placement Retest Policies

Students may retake the English and/or Mathematics Placement Exam(s) one (1) time within a testing period (Fall Semester, Spring Semester, & Summer Session).

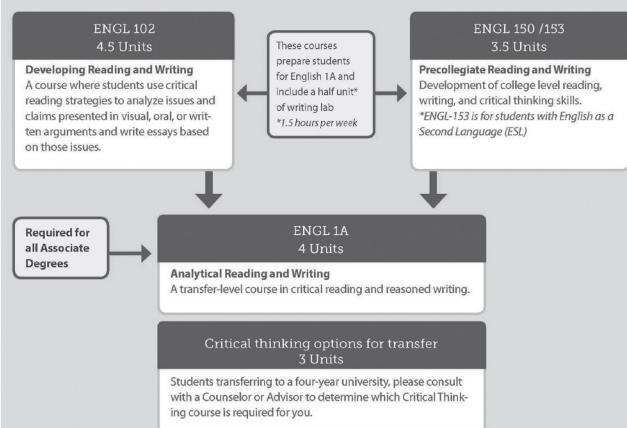
Students are encouraged to retest and meet with a Counselor/Advisor to find their best placement if their test results are more than three (3) years old.

English as a Second Language, English and Math Sequences

ESL SEQUENCE (NONCREDIT)			
1	Fundamental English as a Second Language (ESL) – Low Beginning	ESL-200	Develop basic listening comprehension and survival speaking, reading and writing skills
2	Fundamental English as a Second Language (ESL) – High Beginning	ESL-201	Enrich essential listening skills and survival vocabulary, reading and writing skills
3	Intermediate English as a Second Language (ESL) – Low	ESL-210	More complex language skills
4	Intermediate English as a Second Language (ESL) – High	ESL-211	Comprehension of everyday spoken English, reading and writing
<i>Take classes for the number of hours needed to meet the learning outcomes. No minimum or maximum number of hours required.</i>			

Continued on the next page ▶

English Course Sequence



Do you need additional support in any of these courses?
Try our **English Support Courses.**

Developing Literacy 0 Units	Intermediate English as a Second Language (ESL) 0 Units	English Labs 0.5-1 Units	The LIGHT Center 1-4 Units
<p>READ-260* A course designed to develop basic reading and writing skills.</p> <p><i>*This course can be taken alone or as a support course.</i></p>	<p>ESL-211 Comprehension of everyday spoken English, reading and writing for ESL students.</p>	<p>Individualized instruction to help students improve reading, writing, and critical thinking skills.</p> <p>ENGL-53A: A lab for students enrolled in ENGL-1A ENGL-53B: A lab for students enrolled in ENGL-1B ENGL-54: A lab for students enrolled in any Humanities course ENGL-55: A lab for students enrolled in any Social Science course</p> <p>P/N/P Only</p>	<p>GUID-145 Applied Study Skills & Strategies Development and application of adaptive study strategies.</p> <p>GUID-146 Applied Study Skills and Strategies For English and Humanities Development and application of adaptive study strategies for English and the humanities.</p>

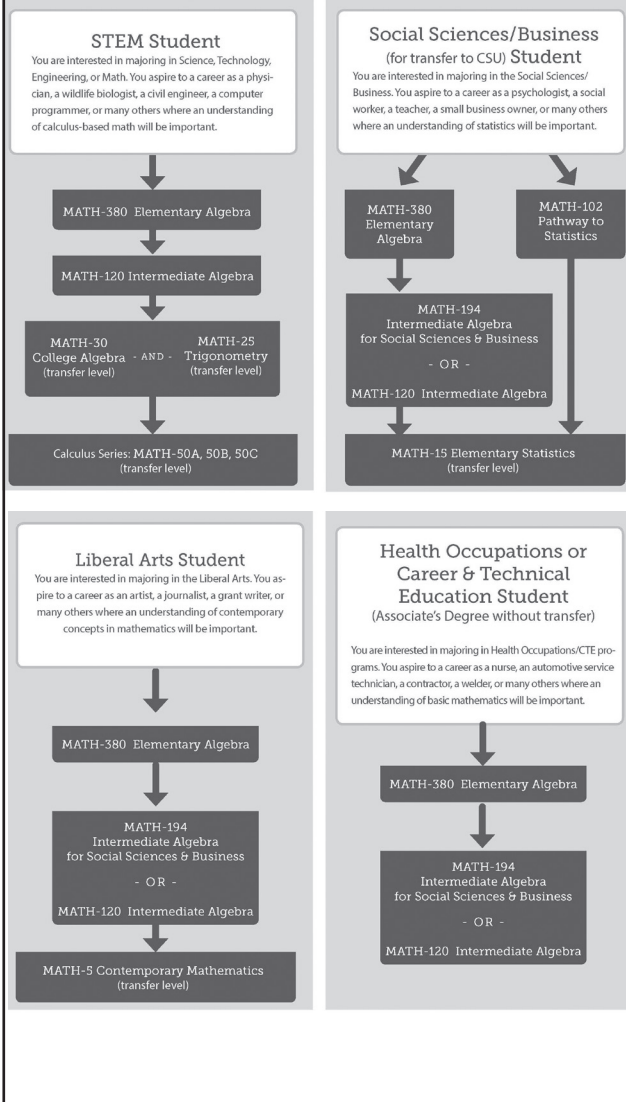
Course availability varies by campus location.

If you have any questions about course availability, please contact the location you plan to attend:

- Eureka or Distance Education: 707-476-4150
counseling@redwoods.edu
- Del Norte: 707-465-2300
- Klamath-Trinity: 530-625-4821

Math Course Sequence

1. Choose a path based on your academic/career goal.
2. Consult assist.org **and** your counselor/advisor.
3. Determine your placement and begin the pathway at the appropriate level



3. PARTICIPATE IN ORIENTATION

A variety of orientation options are available where students will learn about academic programs, faculty expectations, student support services, and how to navigate the College's online systems.

Academic advisors and counselors are available to help students develop a Student Education Plan (SEP). This plan serves as a roadmap for the student as s/he progresses toward degree or certificate completion. The SEP is based on each student's individual needs, personal/outside commitments, and educational goals. For those who are undecided about their educational goals, it is especially important to meet with an academic advisor or counselor during the first semester of enrollment.

For more information about academic advising and orientation options, please contact the location you plan to attend.

4. REGISTER FOR CLASSES

Registration

Students may register for classes via the web using WebAdvisor. Assistance using WebAdvisor is available at each campus. All students are assigned specific registration dates and times for each term. Students may not register before the specified time, but may register at any time after the specified time has passed.

At CR, there are three terms each year: a 16-week fall semester, a 16-week spring semester, and summer sessions.

Adding Classes After the Term Begins

Students may be allowed to add classes during the first week of the semester with instructor approval. After the second week/census date, dean approval is required to add classes.

Registering to Audit a Class

When a student audits a class, it means that s/he will attend that class on a regular basis, but does not wish to receive any academic credit for it. Students may audit classes with the instructor's approval on a space-available basis. This determination will not be made until after the first class meeting, to ensure that students wanting to take the class for credit have every opportunity to enroll before those wishing to audit the class are added.

Those wishing to audit a class must:

- complete the CR Application;
- complete the prerequisites for the class (if any);
- obtain an Audit Form from the Admissions and Records website;
- obtain the signature of the instructor on the Audit Form to verify that s/he approves of the audit;
- return the Audit Form to the Admissions and Records Office; and
- pay the required fees (which are non-refundable). The BOG Waiver does not cover audit fees.

No student shall be permitted to change his/her enrollment in a class for credit to audit or vice versa.

Audited classes will appear on the student's transcript but no grades or credits will be recorded.

Students enrolled in ten or more credit units in a given term will not be charged a fee to audit three or fewer credit units in that same term.

The instructor, in consultation with the student, will determine classroom policies for students who audit: including attendance, participation, assignments, and the evaluation of course work.

Limitations on Enrollment

Students who fall into the following categories may not be allowed to register:

- students on academic and/or progress probation are strongly encouraged to meet with an academic advisor or counselor before registering for classes;
- students who want to register for more than 18 units will need approval from an academic advisor or counselor;
- students who are subject to conduct suspension may only register if they have approval from the Vice President of Instruction & Student Development or his/her designee;
- high school students will need a new concurrent enrollment form on file each term before registering for classes; and

- students who have been dismissed from the College will not be allowed to register for classes for the following semester.

Student Responsibilities

Report Changes in Academic Interests to your Academic Advisor or Counselor

Students thinking about making a change in their academic program must meet with an academic advisor or counselor.

Attend Classes on a Regular Basis

Since regular attendance is a critical factor in student success, students at the College are expected to attend all sessions of each class.

Students should make certain they understand the attendance standards that are to be met in each class. Students who know that they will be absent from class should notify the instructor. Faculty may drop students for excessive absences.

Withdrawing from Classes

Students are responsible for officially withdrawing from classes they are not able to complete. Students who officially withdraw before the published withdrawal deadline will receive a "W" (Withdrawal) on their academic records. Students who stop attending a course without officially withdrawing may receive an "F" (Failure) on their academic records. Faculty may withdraw students from a class for excessive absences until the withdrawal deadline.

While it is our hope that all students will be able to complete the classes for which they register, there are times when students may need to withdraw from all of their classes. When this occurs, the following steps must be followed:

- withdraw from all classes in which you are enrolled;
- return all books and equipment that belong to the College;
- pay all loans and financial obligations that are outstanding to the College; and
- contact the Financial Aid Office (if a financial aid recipient).

If a debt is owed to the college, registration will be blocked and CR transcripts and other important records will not be released to the student or other institutions or agencies.

Process for Petitioning to Graduate or Applying for a Certificate

In order to obtain a degree or certificate from CR, students must first submit a petition to graduate or a petition for certificate during their last term at the college. If planning to graduate in spring, the petition or application is due by the first Thursday in March. For summer graduation, the petition or application is due by the last Thursday in June, and for fall term, the petition or application is due by the last Thursday in October.

The forms can be obtained from the College's website under "Admissions." A graduation petition requires an academic advisor or counselor's signature to confirm that all requirements have been met. Applying for a certificate does not require seeing an academic advisor or counselor but is recommended. If petitioning for more than one degree or certificate, a separate form is required for each one. The college also requires students to complete a "graduate survey" or "certificate survey" at the time the petition or application is submitted.

If students miss the deadline for petitioning to graduate or applying for a certificate they may apply in the next term by the appropriate deadline. All degrees and certificates are subject to final approval by the College Evaluator. Verification of degrees and certificates are posted to transcripts within two months from the end of the term in which the petition was granted. Certificates of Recognition are not posted to transcripts.

Report Change of Address to the College

A student who changes his/her mailing address should report the change through WebAdvisor, <https://webadvisor.redwoods.edu/>

STUDENT FEES*

Mandatory Fees

Fees Required as a Condition of Enrollment at the College

1. California Residents

Although (by definition) there is no "tuition" for California residents, there are still certain fees that residents are expected to pay as a condition of enrollment. These fees are:

An enrollment fee	Currently \$46/unit
Audit fee (non-refundable)	\$15/unit
A health services fee	
Eureka-area, Online	\$19/semester \$15 summer session
Students at Del Norte, Klamath-Trinity, or Southern Humboldt	\$6/semester \$6 summer session
<i>A small number of courses have instructional materials fees. These fees are listed on WebAdvisor.</i>	

In order to have your status changed from non-resident to resident, you must complete your request by the Wednesday prior to the start of the term.

An Important Note about the Board of Governors Fee Waiver

The Board of Governors (BOG) Fee Waiver is a program authorized by the California State Legislature. California residents who qualify for the BOG waiver are not required to pay the enrollment fee. The qualifications are:

- the student must be a California resident; and
- the student must be receiving public assistance through General Assistance (GA) or General Relief (GR), AFDC/TANF/CalWORKs, Supplemental Security Income (SSI), or State Supplementary Income (SSI); or
- the student must meet the income standards set by the state; or
- the student must be eligible for state and/or federal financial aid based upon filing the Free Application for Federal Student Aid (FAFSA).

The health services fee, instructional materials, books, activity and technology fees, and audit fees are not covered by the BOG waiver.

Students are responsible for ensuring their account is correct.

Beginning Fall 2016, students with any combination of two consecutive terms of cumulative GPA below 2.0, and/or cumulative unit completion of not more than 50% percent may result in loss of fee waiver eligibility. Contact the Financial Aid Office for more detailed information.

Students who wish to apply for a BOG should:

- complete the Free Application for Federal Financial Aid (FAFSA) (preferred method); or
- the BOG application form is available on the CR website. Check with the Financial Aid Office to see if additional income tax information or agency verification will be required to process the application; and
- bring or mail the completed application and any additional verification information to Financial Aid before registering for classes.

2. Non-Residents

Students who have not been legal residents of the state of California for at least one year immediately preceding the beginning of the term in which they wish to enroll will be required to pay non-resident tuition. At the time of this printing, the rates that non-residents will be expected to pay as a condition of enrollment are:

Tuition	currently \$235/unit*	
An enrollment fee	currently \$46/unit	
A health services fee		
Eureka-area, Online	\$19/semester	\$15 summer session
Students at Del Norte, Klamath-Trinity, or Southern Humboldt	\$6/semester	\$6 summer session

A. Non-Residents Participating in the Oregon Exchange Program

The college has entered into agreements with two Oregon colleges to provide for a reciprocal exchange between institutions that are located in two different states but that are still geographically close to one another. The intent of this program is to offer academic programs to students that may not be available at their own college. These colleges are:

- Oregon Institute of Technology; and
- Southern Oregon University;

Students attending CR under the auspices of one of these agreements are obligated to pay the following fees:

Tuition: an amount equal to 27% of the regular non-resident tuition, rounded to the nearest dollar.	currently \$64/unit*
An enrollment fee	currently \$46/unit
A health services fee	
Eureka-area, Online	\$19/semester \$15 summer session
Students at Del Norte, Klamath-Trinity, or Southern Humboldt	\$6/semester \$6 summer session
<i>A small number of courses have instructional materials fees. These fees are listed on Webadvisor. *The non-resident and Oregon Exchange fees include a \$1 per unit capital outlay fee.</i>	

Health Services Fee

A mandatory health services fee will be charged. Waiver/Exemption to this fee is available only to students who depend exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination, or organization.

Requests for this exemption are made by petition to the District Admissions and Records Office.

The health services fee will not be refunded for students who drop a class or all classes after the class start date.

AB540:

This law does not grant residency; it requires that certain nonresident students be exempted from paying nonresident tuition. This benefit is available to all U.S. citizens, permanent residents of the U.S., and aliens who are not nonimmigrants (including those who are undocumented), who meet all other eligibility criteria listed below:

- the student must have attended a combination of elementary/secondary education in California, and earned 3 years of full-time California course work;
- attendance could be at multiple California high schools;
- the student must have graduated from a California high school or attained the equivalent thereof (e.g., a GED or a high school proficiency exam). The GED or high school proficiency exam must be from California. There is no time limit on how far in the past the student might have attained this status;
- attendance at continuation high schools, charter high schools, independent study at the 9th-12th grade level while enrolled in a California public school, including a charter school, and private tutoring provided by a person holding a valid California teaching credential (and meeting other state requirements) are recognized under state law as acceptable manners in which to attend high school;
- home schooling -- instruction by a tutor or other person (including the student's parent) who did not have a valid California teaching credential -- is not acceptable;
- the law does not distinguish between public and private high schools.
- there is no time limit on how far in the past the student might have attended a California high school;
- students who are nonimmigrant aliens (the most common being the F series student visas and B series visitor visas) are not eligible for the exemption; and
- students who previously held valid non-immigrant visas but who are out of status at the time of execution of the affidavit are eligible for the exemption.

Any student who has met the AB540 eligibility criteria must complete and sign the "California Nonresident Tuition Exemption Request" form.

***Please Note: All fees are subject to change. The enrollment fee is currently \$46/unit.**

*Additional information about these fees, as well as a listing of persons who may be exempt from paying the fees listed above may be found in Board of Trustees Policy 5030 and Administrative Procedures 5030. A small number of courses have instructional materials fees. These fees are listed on WebAdvisor. **The non-resident and Oregon Exchange fees include a \$1 per unit capital outlay fee.*

OTHER FEES

Parking Fees

Because the college is considered a tenant at the Klamath-Trinity site, parking at that location is currently free of charge. It is also free to park at the Del Norte Education Center.

Parking on the Eureka campus is by permit only. Semester or annual permits may be purchased online at www.pmbonline.org.

Automobile/Truck:	
Annual (August to August) Permit	\$73
Fall or Spring Semester	\$46
Summer Session	\$17
One-day Permit	\$2
Motorcycles:*	
Annual (August to August) Permit	\$37
Fall or Spring Semester	\$23
Summer Session	\$10
One-day Permit	\$2

One-day permits are available at vending machines located throughout the parking areas.

**If an Automobile/Truck permit is purchased, and a motorcycle is the individual's second vehicle, the motorcycle permit will be issued to the original purchaser at no additional charge. This only applies to motorcycles as a second vehicle.*

Parking permit refunds are subject to a \$2 per day charge (Monday thru Friday), deducted from the original purchase price, beginning on the original purchase date. The parking permit must be surrendered at the time of refund request. Refunds are processed and paid only to the original purchaser usually within 14 business days from the date of refund request.

Instructional Materials Fees

Materials fees are listed below the specific class listings in the schedule of classes on WebAdvisor.

Student Technology Fee

Students pay a student technology fee of \$10 per term. This fee supports the purchase of student lab technology, maintenance of such technology or other related costs on each campus. Prior to the beginning of each term, students may opt out of this fee by contacting the Cashier in the Business Office.

Student Activity Fee

Students pay a student activity fee of \$10 per term. This fee supports the Associated Students of College of the Redwoods (ASCR) social, educational, recreational, and athletic activities and programs on each campus. For more information about campus life at the main Eureka site, you may visit our website at www.redwoods.edu/ascr/. Prior to the beginning of each term, students may opt out of this fee by contacting the Cashier in the Business Office.

The student activity and technology fees will not be refunded for students who drop a class or all classes after the class start date.

Official Transcripts Fee

Need to Request a CR transcript

Official transcripts can be obtained by logging on to WebAdvisor and clicking on "Request Official Transcripts" from the student menu. These transcripts are produced and mailed the next Friday after payment has been received. The first two transcript requests

are free. Each additional transcript request is \$8.

"Rush" transcript requests are \$15 and are processed and mailed within 48 hours of receipt of payment.

Unofficial transcripts are free and can be obtained by logging into WebAdvisor and clicking on "view unofficial transcript".

Important Information

If you want your transcript to include your current semester's grades you must request your transcripts after your grades have been posted or indicate this on your Transcript Request Form.

If you want your transcripts to include your degree, please be aware that:

- degrees and certificates will be posted to transcripts within 3 weeks after the end of the semester for those students sitting for State Board Exams; and
- for all other students, degrees and certificates will be posted to transcripts within 8 weeks after the end of the semester.

All currently registered students have a WebAdvisor logon ID. For assistance check the WebAdvisor Frequently Asked Questions. If your last class was prior to 2002 we will need to create an account. Please contact our ITS Help Desk at 707-476-4160 for further information and support.

If your last class was prior to 1986, those transcripts may take up to 30 days to process.

If you have questions about your transcripts, please call the Admissions & Records Office at 707-476-4200.

Refunds

For Dropped Classes

Enrollment fees will only be refunded if the student drops the full-semester-length class in question by the Friday of the end of the 2nd week of the spring or fall semester. Refund deadlines for summer classes vary by class length. If applicable, a refund processing fee of \$10 per student per semester may be subtracted before the refund is issued. If a class is cancelled by the college, all enrollment fees will be refunded to the students who have registered and paid.

Students who receive federal financial aid are subject to federal refund calculation formulas. Contact the Financial Aid Office for detailed information.

The Oregon Exchange student refund policy follows the same time frames and other guidelines as those specified for California residents.

The health services, technology, and student activities fees will not be refunded for students who drop a class or all classes after the class start date.

To Students Paying Non-Resident Tuition

Refunds shall be made according to this schedule only after an official drop or withdrawal has been processed by the Admissions and Records Office.

Time of Official Withdrawal or Reduction in Load	Percent of Original Fee Refunded
Through Friday of the end of the second week of the term	100%
Through Friday of the end of the third week of instruction	50%
Through Friday of the end of fourth week of instruction	25%

Consequences of Non-payment of Fines or Other Funds Due to the College

As a means of encouraging the payment of obligations to College of the Redwoods, its Foundation, and any offices thereof, the following blocks will be put in place until all debts are paid:

- Transcripts will not be issued.
- Registration will not be processed.
- Degrees or certificates will not be awarded.
- Grades will not be released.

Upon presentation of valid receipt for the unpaid monies due to the College or any of its agencies, the restrictions shall be removed. Any account balances older than 120 days may be subject to the collections process.

Course Deregistration

Fees must be paid at the time of registration. College of the Redwoods does not bill for unpaid registrations. Students with unpaid accounts risk being dropped from classes for non-payment (Deregistration or D-Reg). Students must pay their bill in full, setup a payment plan and make payments on-time to avoid being deregistered. Otherwise, students can be dropped from classes to make seats available for other students seeking to register. Waitlisted classes can be dropped as well if the balance is not paid in full for classes in which a student is officially enrolled and fees charged. Do not rely on deregistration if you need to drop a class. Go to WebAdvisor to drop classes. Remember that you and your family, if applicable, are primarily responsible for your educational costs. If you do not pay your bill, it will be turned over for collection.

To avoid D-Reg, check that your WebAdvisor account online does not have any balance due.

Account Collections Process

Each student or account holder is responsible for paying all fees, charges, and amounts owed to the College of the Redwoods. Nearly all students and accounts holders pay their debts in a timely manner and therefore do not become subject to the account collections process. However, a few accounts incur debts over 120 days past due, which is considered delinquent. Delinquent accounts become subject to the account collections process. The College of the Redwoods may take additional actions to collect monies owed on delinquent accounts, including:

- The delinquent account may be listed on consumer credit bureaus.
- The delinquent account may be sent to a collection agency for collection, and the actual fee charged by the collection agency plus a \$25 processing fee will be added to the balance owed (as permitted by California Government Code 16583.1).
- The delinquent account may be sent to the Chancellor's Office Tax Offset Program (COTOP)/Franchise Tax Board (FTB) for collection, and the actual fee charged by COTOP/FTB plus a \$25 processing fee will be added to the balance owed (as permitted by California Government Code 16583.1).

All other legally available remedies may be pursued.

FINANCIAL AID PROGRAMS AND SERVICES

Each year, over \$15,000,000 in financial assistance is made available to students attending College of the Redwoods. These funds are provided from federal, state, and local programs. For specific program information check our website at www.redwoods.edu/financialaid.

Eligibility

Most forms of financial aid are available only to students who are enrolled in a course of study leading to an eligible degree, certificate, or transfer to a four-year college or university.

Students who do not have a high school diploma or the equivalent (e.g. a GED certificate), are not eligible for federal financial aid at College of the Redwoods, but may be eligible for some state and locally funded aid programs. (GED info is available on page 16.)

Estimated costs of attending CR during the 2017-18 academic year

Although College of the Redwoods charges relatively low fees, many students need assistance with the expenses related to attending college. The following is an example:

Expenses	Student living with parents	Student on campus Residence Halls
Fees (12 units per term)	\$1,182	\$1,182
Books & Supplies	\$1,791	\$1,791
Food & Housing	\$4,599	\$7,809
Transportation	\$1,180	\$900
Miscellaneous/personal	\$2,014	\$1,638
Total for CA Residents	\$10,766	\$13,320
Non-CA Resident* add: Non-resident tuition	\$5,088	\$5,088
Total for Non-Residents	\$15,854	\$18,408

Note: The costs listed for fees, out-of-state tuition, and residence halls are subject to change without notice.

How To Apply For Financial Aid

Students must complete the Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov. This application must be filed annually and students are encouraged to file the application online as soon as possible after October 1, 2016 for the 2017-2018 school year. Students are required to regularly check their student email account (@mycr.redwoods.edu) for updates and required information.

Application Deadlines

Students may apply for financial aid at any time during the school year, but it is recommended that students complete the application process as soon as the application opens on October 1st of each year to assure full consideration for all programs. Some funds are very limited and run out well before the school year begins. Priority deadline for completed financial aid files is June 1, prior to the fall term. Additional deadlines are posted on our website at www.redwoods.edu/financialaid/.

How To Maintain Eligibility For Financial Aid

For Federal Student Aid - Satisfactory Academic Progress (SAP)

College of the Redwoods is dedicated to providing financial aid to eligible students. The College complies with federal requirements to monitor financial aid recipients' satisfactory academic progress toward a declared, approved educational objective of an Associate Degree, certificate, or transfer to baccalaureate degree granting institution. The student is responsible for achieving adequate grades and completing the courses required for this objective.

To meet the Satisfactory Academic Progress standard, you must earn a minimum cumulative Grade Point Average (GPA) of 2.0, successfully complete 67% of all units attempted and meet your educational objective before attempting 125% of the number of units required for your program. More details on these requirements are available on our website at www.redwoods.edu/financialaid.

Remedial Units: Students are allowed to receive financial aid for certain remedial units, if the remedial classes are a prerequisite for entrance into a regular college program, up to a maximum of 30 attempted units. Classes considered below the secondary-level are not eligible for financial aid funding.

Federal regulations require that this policy apply to all students whether or not financial aid was received. Even if you have NEVER applied for, or received financial aid, your overall history in college will be reviewed before you are awarded financial aid to make sure you are meeting these standards. Academic Renewal is not recognized for financial aid academic progress purposes. All grades and units including repeated courses will be used in the SAP calculation. Please note that not all programs are eligible for financial aid funding, particularly short-term programs.

Federal regulations (CFR 668.2) do not allow financial aid payment for multiple repeats of the same course. Students will not be paid for the third attempt of a course. For purposes of this regulation only, 'W' and 'F' grades are not considered attempts. Remember that both 'W' and 'F' grades are always included as attempts in the satisfactory Academic Progress calculation.

For the Board of Governors (BOG) Fee Waiver - Academic Standing

The College complies with state requirements to monitor students' academic standing in an educational program at the institution. BOG eligibility may

be lost if the student is placed on academic and/or progress probation according to the guidelines set forth in the California Code of Regulations, Title V, Section 58621. Notifications of BOG status will be sent within 30 days following the end of the term that resulted in the probation. Students may file a Loss of BOG appeal form to have their eligibility restored for the term the loss occurred.

Students may lose the BOG Fee Waiver if they are on academic and/or progress probation and/or dismissal for 2 consecutive primary terms:

- They have less than the 2.0 minimum cumulative GPA.
- They have not completed more than 50% of attempted units.

Students are encouraged to review the Academic Standards section of the course catalog for full descriptions of Academic and Progress Probation and Dismissal.

Withdrawal (Official or Unofficial) and Your Financial Aid Eligibility

Never Attended

If you receive aid and drop all your classes prior to attending at least one class meeting, and/or are reported as a 'no show' by your instructor(s), you will be required to repay all financial aid that was disbursed to you.

Partial Withdrawal

Adding and/or dropping units after the first grant disbursement will require a possible adjustment of any future disbursements. You may be required to repay a substantial portion of your aid if you drop units after the first disbursement, especially if you drop below half-time enrollment (6 units).

Total Withdrawal

If you withdraw or otherwise fail to complete all of your courses during the term, we are required to determine if any of the financial aid you received should be returned. Federal financial aid is based on the length of time you are in classes, so if you do not attend the entire term, you may be required to repay all or a portion of the aid you received.

Official withdrawal occurs when you completely withdraw from all classes. Unofficial withdrawal occurs when you simply stop attending all classes, but fail to officially withdraw (usually 'NP' or 'F' grades). Both types of withdrawal are subject to repayment. This federal repayment calculation is called Return to Title IV.

Calculation for the Return of Title IV Aid

The amount of assistance that you as a student earned is determined on a pro-rata basis. Once you have completed more than 60% of the payment period or period of enrollment, you have earned all the assistance that was scheduled for that period.

Earned Aid: The percentage of earned aid is calculated by determining the number of calendar days from the first day of the term through the withdrawal date and then dividing that number by the total calendar days in the term.

Unearned Aid: The amount of unearned Title IV funds that must be returned is calculated, first, by subtract-

ing the earned Title IV percentage from 100% to determine the percentage of aid that is unearned and, second, by multiplying the total amount of financial aid that could be disbursed to you by the unearned Title IV funds percentage.

Post-Withdrawal Disbursement

If you did not receive all of the funds that have been earned, per Return of Title IV calculation, you may be due a Post-withdrawal disbursement (PWD). CR may automatically use all or a portion of your PWD of grant funds for tuition, fees and on-campus housing costs. If the PWD includes loan funds, CR must get your permission before we can disburse them. You may choose to decline some or all of the loan funds so that you don't incur additional debt.

Amount to Be Returned by the Student

The Return of Title IV calculation determines the portion of the funds to be returned. Any amount of unearned funds that you must return is called an overpayment. The Financial Aid Office will notify you of the amount to be repaid and you will have 45 days to repay it in full. Students who do not return the overpayment to CR within the 45 days will have their debts submitted to the U.S. Department of Education for collection and will be denied federal aid eligibility at any institution until payment arrangements are made with the Department of Education. Students will become eligible for federal financial aid only after they have repaid the full amount or made arrangements directly with the Department of Education.

The requirements for Title IV program funds when you withdraw are separate from any refund policy that CR may have. Therefore, you may still owe funds to CR to cover unpaid institutional charges. CR will also charge you for any Title IV program funds that CR was required to return on your behalf. A hold will be placed on your

CR records and you will not be allowed to register for future terms, request transcripts, etc. until this debt is repaid to CR.

Return to Title IV and Satisfactory Academic Progress:

Satisfactory Academic Progress (SAP) requirements apply to all financial aid recipients regardless of the funding status due to a Return of Title IV Funds. Repayment of your federal financial aid does not release you from the satisfactory academic progress requirement.

Appeal:

There is no appeal of these debts as it is based on the amount of aid considered 'earned' by federal calculations.

Gainful Employment Program Disclosure Information

For information about our graduation rates, the median debt of students who completed non-degree career technical education programs, and other important information, please visit the "Gainful Employment Disclosure" page on our website at <http://www.redwoods.edu/gainful/>

PLUS Loan for Parents

Federal PLUS loans are available to parents of undergraduate students. Loan limits vary with the cost of the student's educational program and the amount of other financial aid received. The interest rate is variable. A credit check is required. Students must meet all eligibility criteria.

To apply, students must have a complete financial aid file with CR and meet all federal eligibility requirements. Parents can apply for a PLUS at www.studentloans.gov.

Veteran Resource Center

The Veteran Resource Center (VRC) is available to meet the needs of our veterans, Active Duty and Reserve/National Guard service members and dependents attending CR. Conveniently located near the cafeteria, the VRC provides assistance to Vets, dependents and military personnel through advising, matriculation, applying for Veterans Education Benefits, Champ VA, referrals and connection to community Veteran resources and more. Our combined lounge/study area, computers with internet and printing capabilities as well as the all-Veteran/Dependent staff is designed to help you with your academic endeavors and transitional needs. For information and assistance, contact the VRC or visit our website at www.redwoods.edu/vets

Scholarships

In 2014, more than 300 scholarships, ranging from \$100 to \$2,000, were awarded to CR students. Scholarship lists and application forms are available on the web at www.redwoods.edu/financialaid/scholarships

Scholarship amounts and criteria vary. A small amount of scholarships are awarded in the fall, however the majority are awarded in the spring. Students must complete a Free Application for Student Aid (FAFSA) to show financial need.

Other sources of scholarship information are the local library, high schools, and the Humboldt Area Foundation. Numerous types of scholarship programs exist, however, all require investigation and follow-up. For further information about scholarships as well as additional local, regional and national scholarship opportunities, please contact the Scholarship Office at 707-476-4191.



STUDENT SERVICES

At College of the Redwoods we believe that learning occurs not only in our classrooms, but that it also takes place in a wide variety of locations and environments. Using the college's many services and taking advantage of a wide variety of learning opportunities from the very beginning of one's college career can greatly enhance student success. Below is a listing of the many student learning support services and activities that are available throughout the Redwoods Community College District. Services and office hours will vary from site to site. Please call ahead to avoid disappointment or inconvenience.

Academic Counseling & Advising

Counseling and Advising Services are intended to help students attain their educational goals. For more information about the following services, please contact the Counseling and Advising Office at counseling@redwoods.edu.

Academic Advising

Counselors and Advisors help students plan their term-by-term course schedules, establish educational goals, choose academic programs, meet general education requirements, transfer to universities, understand graduation requirements and the graduation petition process. Counselors and Advisors also evaluate and interpret placement scores.

Educational Planning

The counseling and advising staff guides students through the development of Student Education Plans (SEPs), which serve as roadmaps for students seeking CR degrees or certificates. Each student's education plan is individualized, so that it takes into account his/her individual needs, strengths, preparation, and outside commitments while making sure that both required and elective courses are completed in a timely manner. Students can view their SEP on WebAdvisor, in the Academic Planning section.

Academic Problem Solving

The counseling and advising staff are trained to help students develop the strategies they may need to overcome obstacles that threaten to block the attainment of their academic/educational goals.

Career Resources

Career counseling, online resources and assessment tools are available to CR students. Local on- and off-campus part-time job announcements, as well as various resources can be found on the Career Resources webpage at www.redwoods.edu/counseling/career.

Referrals

The counseling and advising staff are skilled at making referrals to other departments, services and agencies if they are not in a position to meet all of the needs of the student.

Academic Support Center (ASC)

The Academic Support Center helps students reach their educational goals by developing their academic skills and encouraging them to become independent thinkers. The Academic Support Center offers learning support services intended to enhance student success. The Academic Support Center welcomes all students, faculty, and staff. All locations may offer free instructional

support services in a variety of forms: Math & English Placement Assessments, individual & group tutoring, Embedded Peer Instructional Support (EPIC), access to computers and study areas, accommodations for DSPS Learners, private study areas, other testing services.

Admissions & Records

The Admissions & Records Office provides information related to initial application, student records, petitions, dropping and adding classes, transcripts, graduation, and degree and certificate evaluations.

Associated Students, College of the Redwoods (ASCR)

The opportunity for self-governance is extended to the students of College of the Redwoods by the Board of Trustees and the Administration of the College. This is done to promote shared governance and student activities which stimulate the intellectual, physical, social, and ethical development of students, as well as to provide expanded educational opportunities and a social life on campus. Become a member of your ASCR today!

On three campuses in the District, the Associated Students of the College of the Redwoods (ASCR) conducts activities which are an integral part of college life. The ASCR sponsors clubs, special events, social activities, music events, student publications, and student governance. The business of the ASCR is carried out by officers elected each spring semester as determined by the ASCR constitution and Board policy. This business is carried out by the ASCR Senate Board which consists of elected and appointed positions. The ASCR office locations within the district are listed on the ASCR webpage.

To participate as an officer, representative, or chair in student government, a student must be carrying six or more units, have a 2.5 grade point average for all previous college work attempted and have paid the Student Activity Fee. Academy of the Redwoods representatives to the ASCR are only required to carry three or more units, but must meet all other requirements for ASCR representation. You must have a 2.5 cumulative grade point average if serving in an elected position and a 2.0 cumulative grade point average to serve as a volunteer. By participating as an ASCR Senate Board Member you are eligible to receive a monthly stipend, and may be required to participate and travel to leadership development retreats or training and conferences. For more information about the ASCR Senate Board and Campus Life at the main Eureka campus please visit our website: www.redwoods.edu/ascr/.

Bookstore

The College of Redwoods Bookstore (Eureka) carries textbooks and supplemental course material required by the college faculty. In addition, the store has a large selection of general books, school supplies, CR logo clothing, gift items, academically priced computer software, and other general merchandise. The Bookstore offers many services to the campus community including a textbook rental program, bus passes, stamps, commencement regalia, and special orders. The Bookstore also conducts a textbook buy-back during the entire year.

Bookstore Hours (Eureka Campus)

Monday – Thursday 8 a.m. to 6 p.m.
Friday 8 a.m. to 4 p.m.

Summer Hours 9 a.m. to 3 p.m.

Closed weekends and all major and campus holidays.

Phone: 707-476-4130

Fax: 707-476-4407

Online ordering and services for all campus locations are available through our website: www.shopredwoods.com

CalWORKS (California Work Opportunities and Responsibility to Kids)

The CR CalWORKS program provides comprehensive support services for students receiving CalWORKs cash aid who are also in good standing with their county. The program aims to prepare participants to transition into employment and achieve long term self-sufficiency. Support services include case management and coordination with the county CalWORKs department, academic and career counseling, work-study opportunities and job placement assistance. Contact CalWORKS at 707-476-4581 for more information.

Child Development Center

(Eureka Campus)

On-campus child care is available at College of the Redwoods (Eureka Campus) Child Development Center for toddler and preschool aged children (18 months-5 years). The CDC provides a play-based, developmentally appropriate curriculum for children and is accredited through the National Association for the Education of Young Children (NAEYC).

A limited number of spaces for subsidized care are available for children from income eligible families. To receive these services the family must demonstrate a need for child care.

When space is available, fee-paying parents may enroll their children at the CDC. Parents pay a daily rate based on the hours of care required and the age of the child. CR students, staff, and faculty have priority for these openings.

The CDC is open for services all instructional days during fall and spring term, and into June as funding permits. Breakfast, lunch and an afternoon snack are served to all children at no cost. Drop-in child care is not available.

Parents are invited to visit the CDC with their child. Registration information is available at the Child Development Center, located on the east side of the campus, by the Field House. Additional information is available online at www.redwoods.edu/cdc.

Clubs and Organizations

Social, educational, honorary, service, and special interest clubs are organized by students at each campus to contribute to the overall life to the college. These organizations also provide a variety of opportunities for social interaction and the exchange of ideas among CR students. Students should view the ASCR webpage for more information and a list of clubs that are active at each location. All student clubs are required to be chartered through the ASCR Inter-Club Council to be an officially recognized CR student club. All clubs are sponsored by the Student Activity fee so all club members are encouraged to pay this fee. You may visit our website at www.redwoods.edu/ascr/orgs to review our list of clubs and our club guide.

Cooperative Work Experience Education

Cooperative Work Experience Education courses are designed to complement the student's academic training with realistic on-the-job experiences. The courses emphasize increasing occupational skills, acquiring desirable work habits, developing healthy work attitudes, and broadening the understanding of working conditions. Students must enroll in and complete at least 7 units (including cooperative education) for each semester of enrollment, or be enrolled in the Alternate Plan allowing students to attend college full-time one semester and work full-time the following semester.

Visit our website at www.redwoods.edu/cwee

Creative Arts Gallery

(Eureka Campus)

Students, faculty, and the general public are encouraged to visit the CR Art Gallery, located in the Creative Arts Complex. Our gallery program features five to six exhibitions each academic year, and includes the work of locally and internationally recognized artists, as well as the CR art faculty and students. Exhibitions are professionally curated and prepared by our art department faculty, staff, and students.

The CR Art Gallery also hosts an Annual Juried Student Art Exhibition each spring semester, where students have the opportunity to exhibit their most accomplished works and even win awards. A different visiting artist or art professional from outside the Art Department judges this juried exhibition each year. Admission to the gallery is always free.

Call 707-476-4559 or visit www.redwoods.edu/artgallery for gallery hours and for information on current and upcoming exhibitions.

Dental Health Center

(Eureka Campus)

The College of the Redwoods Dental Health Center is open on Mondays and Wednesdays beginning in the late fall and continuing through the spring semester. We offer the following procedures at a reduced rate:

- dental examinations;
- complete radiographs (full-mouth and bite-wing x-rays);
- preventive dentistry consisting of cleanings, fluoride applications and sealants;
- tooth restorations including fillings, crowns, and bridges; and
- prosthodontic repairs for removable partial dentures and removable complete dentures.

Appointments must be made in advance. Dental care is provided by local dentists assisted by students in the College of the Redwoods Dental Assisting Program. Dental fees are at a reduced schedule, and payment is due at the time of the service. Cash, checks, and major credit cards are accepted.

For further information regarding dental services provided or to schedule an appointment, please call the Dental Assisting Program office at 707-476-4250, or drop by the office in Room 101 of the Applied Technologies building, Monday through Thursday.

Dining Services

(Eureka Campus)

A college food service facility serving Eureka campus faculty, staff, students and visitors is located in the

Student Union, right next to the Bookstore at the center of the campus. A variety of menu items are available including homemade entrees, a delicatessen/sandwich bar, pizza, burgers, a salad bar, locally brewed coffee and soft drinks, ethnic food specialties, vegetarian options, and breakfast items. During the semester, food service is available Monday through Friday with limited service on the weekends. Meal plans are mandatory for students living in the residence halls.

The Del Norte Education Center provides a student lounge with vending machines and a microwave. Tables and chairs are available for seating.

Programs and Services for Students with Disabilities (DSPS)

DSPS ensures equal access to the educational experience for all learners with disabilities. DSPS provides services to qualified students with: impairments of mobility, vision, hearing, and communication; acquired brain injury; developmentally delayed; learning and psychological disabilities.

Services and accommodations may include: Priority registration; note-takers or taped lectures; sign language interpreters/video remote interpreting; alternate media; test proctoring; mobility assistance; temporary medical parking; Braille; assistive listening devices; advising and academic planning; liaison with faculty and other campus services; orientation to campus services. DSPS provides training to students in the use of assistive technologies such as: speech-activated software, scanners, screen readers and magnifiers. Braille and electronic text production are also available to students who qualify for alternative media. Most computer labs throughout the district provide access to assistive technologies for students with disabilities.

Instructional Support and Learning Disabilities Assessment:

The LIGHT Center, located on the Eureka campus and the Del Norte Education Center, provides learning disabilities assessment and individualized instructional support for students with disabilities. Assessments are completed by Learning Disability Specialists who, based on a student's learning profile, make educational recommendations for accommodations. Individualized instructional support services may include: study groups, skill building in the areas of study, note-taking and test-taking. Guidance classes are offered on the Eureka campus and at the Del Norte Education Center.

Adaptive Physical Education:

Adaptive PE provides students with disabilities direct participation in classes designed for lifestyle fitness including a physical fitness assessment, with subsequent development of individualized exercise program, according to each student's unique needs. Classes are offered on the Eureka campus.

Distance Education/Online Classes

Distance education (DE) offers students the opportunity to learn "anytime, anywhere" using technology to help deliver instruction. We offer DE courses using two different types of technology – interactive two-way video, or online.

Interactive video classes are taught much like regular classes, with scheduled days and times when the class

meets. The difference is that some of your classmates may be meeting at the same time in a different location, and your interactions with them and with the instructor will happen over a streaming media connection. You can ask questions, the instructor can call on you, and you can hold discussions with your classmates, even though you may be separated by many miles. Classes offered using this technology will be listed in WebAdvisor by the location of the class meeting (Eureka, Del Norte, or Klamath-Trinity) and have no special requirements for registration.

Online classes are designed for students who want to take a College of the Redwoods course and prefer to take the course online. They offer flexibility, because they do not require you to be in a specific location at a particular time. They have the same course objectives, outcomes and curriculum as the classroom sections of the course.

For most online sections, learning takes place through instructor-facilitated reading, writing, and class participation. Most or all assignments and exams are web-based. To succeed, you need to have:

1. The ability to work independently with self-discipline, motivation, and good organizational skills;
2. College-level reading and writing skills;
3. Access to a recent Mac or PC computer with a broadband internet connection, and any required software;
4. The basic skills to access and navigate websites, send and receive email, and send email attachments; and
5. The ability to read carefully and follow written instructions.

For more information about taking courses online, go to www.redwoods.edu/online.

EOPS/CARE

Extended Opportunity Programs and Services (EOPS) & Cooperative Agencies Resources for Education (CARE)

EOPS, a state-funded program, was established to assist students who are low income and educationally disadvantaged with financial and comprehensive support services. To receive EOPS services, students must complete an EOPS application. Students are required to file a Free Application for Federal Student Aid (FAFSA) and qualify for the Board of Governors (BOG) grant. Eligibility for services is determined by Title 5 regulations.

EOPS services include the following:

- Orientation. The EOPS orientation is designed to familiarize new students with program policies and services and to provide information regarding college success, as well as an opportunity to meet EOPS faculty and staff.
- Counseling/Advising. EOPS Counselors provide academic, transfer, and career counseling. EOPS students also receive assistance with the development of an individualized Student Education Plan (SEP) as well as receive assistance in career exploration and planning.
- Priority Registration. EOPS students may register early each spring semester and at one time for the upcoming summer, fall, and spring semesters, thanks in part to OneREG.
- Financial Assistance. When funding is available, EOPS provides book vouchers, free bus passes, free printing, and fee waivers. Assistance is issued

to students who have met the responsibilities of the EOPS contract agreement.

- Tutoring. Help is available in math, science, English, the humanities, and the social sciences, as well as access to online tutoring support via NetTutor.
- Assessments. EOPS students are invited to complete the Strong Interest Inventory and/or the Myers Briggs Type Indicator assessments. Used in combination, the Strong and MBTI can be powerful tools to assess a person's interests and personality type. EOPS will also cover the cost of GED testing for those who have not obtained a high school diploma or high school equivalent.

CARE is a supplemental program designed as a support service for the EOPS student who is at least 18 years of age, a single head of household, a current recipient of TANF/CalWORKs cash aid, has a child under the age of 14, and is enrolled full-time upon admission into the CARE program.

CARE Benefits Based on Available Funding:

- Cash Grants to assist with childcare
- Transportation Assistance
- Meal Card
- Extra Textbook and/or Supply Grant
- Laptop Loan

For more information about EOPS/CARE, visit our website at www.redwoods.edu/eops, call (707)476-4270 or stop by the following office on your campus:

- Eureka: EOPS Front Desk in Learning Resource Center (LRC)
- Del Norte: Counseling Office
- Klamath-Trinity: Instructional Site Administration Office

Former Foster Youth (FFY) A current or former foster youth may apply to EOPS at any time and does not need to wait for the EOPS application window to open to apply. FFY definition:

- A current or former foster youth in California whose dependency was established or continued by the court on or after the youth's 16th birthday
- Not older than 25 years of age at the commencement of any academic year

Call the Eureka EOPS office at (707) 476-4270 to be connected with the CR Foster Youth Success Initiative (FYSI) Liaison and to learn more about the CR services available to current or former foster youth.

High School Equivalency Credential: General Education Development (GED) and HiSET Tests

College of the Redwoods Adult Education offers two options for High School Equivalency testing. Both of these tests have been approved by the State of California and passing either will result in the State of California issuing a High School Equivalency certificate. Interested applicants can choose between the GED and the HiSET. The GED consists of four sections: Language Arts, Mathematics, Science, and Social Studies. The HiSET consists of five sections: Reading, Writing, Mathematics, Science, and Social Studies. Each section for either test is scored individually and can be taken during a two-day testing session. Both the GED and the HiSET have testing sessions at the Eureka Downtown site. College of the Redwoods offers free classes to assist individuals to prepare for the high school equivalency tests. Students must have a high school diploma or equivalent (i.e. GED or

HiSET) in order to qualify for the BOG fee waiver or any federal financial aid. For more information about financial aid requirements, please refer to the Financial Aid section of this catalog. For more information on the GED, the HiSET, to register for either test, or additional information about the free preparation classes offered by CR, call the Adult Education office at 707-476-4520, email us at adult-ed@redwoods.edu, or visit our website at www.redwoods.edu/adulted.

High School and Community Outreach

Academy of the Redwoods

(Eureka Campus)

The Academy of the Redwoods Early College High School (AR), located on the College of the Redwoods campus, provides students the unique opportunity to complete up to two years of transferable college coursework as part of a cohesive public high school academic program. Initially funded by a grant through the Bill and Melinda Gates Foundation, AR is the result of an ongoing relationship between the Fortuna Union High School District and College of the Redwoods.

AR students have the opportunity to earn an AA/AS degree or certificate from College of the Redwoods along with their high school diploma at no cost to the student. To support student success in the college teaching environment, AR establishes high, attainable expectations, develops a strong sense of community, instills personal responsibility, and provides excellent teaching within a challenging core curriculum. Students must be committed to a rigorous and accelerated academic curriculum, work collaboratively, make presentations, and plan and execute projects.

The Academy of the Redwoods is founded on the values of respect, responsibility, and choice. Students at AR are offered opportunities for academic achievement that are unique from any other school in our area.

For more information, visit our website at <http://ar.fuhnsdistrict.org>

Upward Bound

Upward Bound at College of the Redwoods is a federally funded TRIO program that provides year-round support to high school students in their preparation for college entrance. The program provides opportunities for participants to succeed in their precollege performance, preparation, and entrance into higher education. Upward Bound serves high school students from low-income families and/or families in which neither parent holds a bachelor's degree. The goal of Upward Bound is to increase the rate at which participants complete secondary education and enroll in and graduate from institutions of postsecondary education. 8th—12th grade students who are or will be attending one of the following high schools are encouraged to apply:

- Castle Rock Charter School;
- Del Norte High School;
- Eureka Senior High School;
- Fort Bragg High School;
- Fortuna Union High School;
- McKinleyville High School; and
- Sunset High School.

There are no charges of any kind to participating students or their families.

For more information, contact a high school counselor, call Upward Bound at 707-476-4277, or visit our website at

www.redwoods.edu/upwardbound/

High School Articulation

Articulation offers high school students the opportunity to earn College of the Redwoods academic credit for approved high school educational courses based on credit by exam. High School articulation is a process that links secondary and post-secondary educational systems through a formal articulation agreement. The agreement specifies the student learning outcomes based on the knowledge, skills and abilities required for students to earn college credit through eligible high school courses. The articulation process allows the student to transition into college without experiencing delay or duplication of learning.

For more information visit www.redwoods.edu/TechPrep/

Honors

(Eureka Campus)

Honors Program Core Curriculum

The Honors Curriculum is a coherent, rigorous program offering freshman and sophomore students a college education second to none.

Some of our most distinguished faculty have designed special courses of study that will apply to General Education and elective transfer requirements at any university and provide advanced academic preparation not possible in traditionally structured classes. It offers these and other significant opportunities to motivated college students:

- it allows students to create a cross-disciplinary portfolio of research projects that will enhance a student's academic body of work prior to transfer;
- it consists of unique courses and co-curricular activities to prepare Honors students for transfer to top colleges and universities and the opportunity to present their research projects at an annual conference at either UC Berkeley or Stanford University;
- unique benefits are available to the few students who complete 15 or more units in honors. Although a student is only asked to take one class a semester to be a member of the Honors Program, many choose to take more. Even a single honors course identified on a student's transcript tells admissions offices this student opted for a more rigorous learning experience. Transfer benefits at prestigious four-year universities range from guaranteed admission to scholarships; and
- close connection to faculty members and academic counselors provides excellent scholarship and transfer support for Honors students.

The Honors Program at College of the Redwoods is truly a low-cost, high-quality alternative for your first two years of college work.

For more information contact Honors Program Co-Coordinator, Dana Maher at 707-476-4539 or Co-Coordinator Susan Nordlof at 707-476-4336. Visit our website: www.redwoods.edu/Honors

Housing

(On-Campus Eureka Campus)

The residence halls on the Eureka campus provide a collegiate residential living opportunity for students coming both from within and outside the district. As one of only 10 California community colleges to provide this housing alternative for its students, CR is truly unique. Students who would like to live away from home in a small, friendly community should seriously consider this option, since it offers social, educational and recreational opportunities for those who live there. Students who are interested in academic achievement and campus leadership, and who would like to meet new people from a variety of backgrounds and cultures, are encouraged to apply. Rooms are designed to accommodate two students per room and two rooms (four students) share a bathroom. Each room is furnished with the necessary furniture for two people, but students must provide their own bedding and linens. Cost includes the room, electricity, water, garbage, cable TV and Internet. A mandatory meal plan provides students with nutritious meals served in the Corsair Dining Hall.

The residence halls have on-site coin operated laundry facilities and a game room. Arrangements are made for residents to have scheduled after-hours access to the gym, and field house, and residents can attend many on-campus CR events for free.

The halls have a full-time Director and Assistant Director as well as five well-trained undergraduate Resident Assistants, so there is always someone available to talk to and to help find solutions if problems arise.

Students who wish to apply for housing may go on-line to www.redwoods.edu/Housing/ then look for "How to Apply" to find housing application materials. If you have any questions regarding housing, please call 707-476-4294 or email us at Housing@redwoods.edu.

Intercollegiate Athletics

(Eureka Campus)

The College of the Redwoods Corsairs belongs to the Golden Valley Conference, which also includes Butte College, Feather River College, Lassen College, Shasta College, Lake Tahoe Community College, and College of the Siskiyous. The California Community College Athletic Association (CCCAA) governs all community college athletics in the state of California. College of the Redwoods participates in the following sports in the Golden Valley Conference:

Women: Basketball, Cross Country, Track & Field, Beach Volleyball, Soccer, Softball, Volleyball

Men: Baseball, Basketball, Cross Country, Track & Field, Football, Soccer

In football, the Corsairs are also members of the Pacific-7 Conference of the Northern California Football Conference.

Learning Resource Center

The Learning Resource Center (LRC) building, located at the Eureka Campus, houses the following services: the Library, for research resources and instruction; the Academic Support Center for study rooms, testing and tutoring; the Math Lab where students registered in a Math Lab class can get intensive Math practice and help; and the Writing Center, for writing instruction and practice.

A Learning Resource Center with quiet study rooms, services for testing and computer access are available at the Del Norte Education Center.

Library Services

College of the Redwoods' Eureka campus and Del Norte Education Center each have a library. Library hours of service are posted at each library location and on the library web page.

CR students, staff, faculty, and district residents with legal picture identification may borrow library materials, which include print books, e-books, DVDs, and print periodicals. The library lends textbooks, assigned class readings, headphones, flash drives, and Wi-Fi enabled laptops for use in the library.

Online library services and resources can be accessed at www.redwoods.edu/library. Online databases provide access to full text articles from newspapers, magazines, journals, and other types of research information in e-books, encyclopedias, statistical data sets, special reports, transcripts of TV and radio news, maps, and images. Off campus access to electronic resources will require a password.

Reference services are provided by faculty librarians and includes research advice and assistance, instruction in use of library collections and resources (both print and electronic), and may be provided by telephone, email, or in-person. Librarians also provide general orientations, and in-class library instruction and research workshops, at the request of the teaching faculty.

Library facilities and computers are accessible to students with disabilities, and computers have adaptive software installed. All computer workstations in

the library provide access to the Internet, the library catalog, research guides, in addition to the online databases. All computers have MS Office applications installed for student use in completing assignments. Printing from computers, to color or black and white printers, is available for a modest fee.

Student Health Center

Students attending classes on the Eureka Campus, as well as online classes are assessed a special fee to fund the operations of a Student Health Center. This program is housed in the Physical Education Building, in offices adjacent to the main gymnasium. CR's Student Health Center is staffed by a Registered Nurse or a Family Nurse Practitioner five days a week, on a part-time basis while classes are in session. The Center provides minor medical care for illnesses and injuries, health promotion education, immunizations and testing, as well as examinations required for specific vocational training programs. Local community clinics are available for acute care while local hospitals are used for emergency care.

Transfer Center

The Transfer Center provides information and assistance for students intending to transfer to a four-year college or university. The Transfer Center is designed to reduce obstacles to the transfer process by providing information on college and university application deadlines, requirements, and other issues of importance. The Center also sponsors "Instant Admissions" activities, college fairs, and other activities that will help CR students understand that transfer to a four-year college or university is a process, not an event.

Transfer services are provided through the Counseling and Advising Offices at all locations.

TRIO Student Support Services

The TRIO Student Support Services Program is a federally-funded grant program intended to serve students who are low-income or first-generation, or students with disabilities, and is available to students at the Del Norte and Eureka campuses. The Eureka campus program is called the TRIO Student Success Program. Both programs provide services to increase student retention, graduation, and transfer rates. Services include educational and career planning, financial literacy, tutoring, assistance with financial aid forms and scholarships, and university tours. Participants must be U.S. citizens or legal permanent residents, as well as have academic need. For more information, contact the TRIO program in Del Norte at 707-465-2320 or the TRIO program in Eureka at 707-476-4303.



ACADEMIC STANDARDS

Catalog Rights

A student is normally governed by the associate's degree, certificate of achievement, or certificate of recognition requirements in effect at the time of his or her first completed term of enrollment. For the purpose of this regulation, enrollment is defined as registration for and completion of at least one course. A student may claim that he or she has been continuously enrolled as long as he or she completes at least one regular semester course for credit with a grade of A, B, C, D, or P during each academic year. Courses in which a student receives a "W" are not considered to have been completed.

If a student's enrollment is interrupted for two consecutive semesters, he or she will be governed by the degree and/or certificate requirements in effect at the time of his or her first completed term of enrollment following reentry into the college. A student may also elect to be governed by the program requirements in effect at the time the student completes the program requirements. A semester is defined as either a fall or spring term.

A student will not receive a degree or certificate under requirements that are more than six years old.

Open Courses

1. Unless specifically exempted by statute, every course, course section, or class at the College shall be fully open to enrollment and participation by any person who has qualified for enrollment at the College and who meets such prerequisites as may be established pursuant to Chapter II, Division 2, Part VI, Title 5 of the California Administrative Code, commencing with Section 51820.
2. Limited English language skills will not be a barrier to admission to the college and to participation in its educational program.

Classification of Students

Freshman: A student who has completed fewer than 30 units of college credit.

Sophomore: A student who has completed 30 or more units of college credit.

Post-Graduate: A student who has been awarded a degree and has enrolled for further study.

Full-Time: A student enrolled for 12 or more credit units.

Part Time: A student enrolled for less than 12 credit units.

Course Numbering System

#1-99: Courses which may be applied to a Baccalaureate Degree or to an AA or AS degree

#100-199: AA/AS applicable courses

#200-299: Non-credit Adult courses

#300-399: Skill Development courses

Prerequisite

A prerequisite is a course a student must earn credit for with a grade of "C," "P" (pass) or better or a condition that a student must meet before enrolling in subsequent course. Prerequisites provide students with skills or knowledge without which they are unlikely to succeed in the subsequent course. Students will not be permitted to enroll in courses or programs without meeting the appropriate prerequisites.

Failure to complete a prerequisite may result in the student's being withdrawn from the course. If a

student is not sure whether or not s/he has met a prerequisite, s/he should consult an academic counselor or an advisor before registering.

Corequisite

A corequisite is a course that students are required to take along with another course. A corequisite provides a set of skills or a body of knowledge that must be acquired through concurrent enrollment in both courses. If a course requires a "corequisite," the student must enroll in both courses.

Recommended Preparation

When there is a course or preparation that a student is advised (but not required) to have before or in conjunction with enrollment in a course, it is considered to be a class with "recommended preparation." Strongly recommended preparation represents a set of skills or a body of knowledge which will help a student achieve a greater understanding of course material but without which the student still may succeed in the course or program.

Prerequisite Challenges

Students who believe they have sufficient academic preparation to enroll in a course despite the prerequisite or limitations on enrollment in a specific course may petition to waive the prerequisite to enroll in a course. The petition form is available on the Admissions webpage and requires documentation of the student's claim of preparation, as well as signed approval of the subject matter expert in the discipline of the petitioned course.

Evaluation of Credit

CR accepts most lower-division, degree-applicable course work that students have completed at another regionally accredited college with a grade of C or higher. Any credit granted by College of the Redwoods is subject to reevaluation by other colleges.

College of the Redwoods does not evaluate international educational records. If you wish to have CR consider credit for coursework completed at a foreign college or university, you will need to have your courses evaluated and sent to CR by an international evaluation service.

Contact the Admissions and Records Office about how to have your transcript evaluated prior to registering for classes.

Advanced Placement Credit

College of the Redwoods encourages prospective students to prepare themselves for college by taking courses that are rigorous and challenging. High school students may have opportunities available to them, such as College Board Advanced Placement (AP) courses. Students completing various AP courses and earning scores of 3 or higher on AP examinations may earn between 3 and 8 semester units of credit for an AP course. Advanced Placement credits may be used to satisfy specific AA/AS degree General Education requirements and major requirements at CR, or may be applied as elective units toward the degree. Be advised that when a student transfers to another college or university, each institution evaluates advanced placement units in accordance with its own policies. Therefore, advanced placement units remain intact and do not transfer as College of the Redwoods courses. Furthermore, advanced placement units may not be used to satisfy residency requirements.

Specific course credit is granted to students with qualifying Advanced Placement examination scores when it has been determined that Advanced Placement course work is equivalent to specific College of the Redwoods course work.

To apply for Advanced Placement credit, students must be enrolled in, or have completed, at least 12 units at College of the Redwoods. Advanced Placement Program scores must be sent to the Admissions & Records Office for evaluation.

The table on the next page lists credits awarded by College of the Redwoods for specified Advanced Placement examination scores. (BP/AP 4235)

International Baccalaureate (IB) Credits

College of the Redwoods may award college credit for International Baccalaureate (IB) course completion with scores of 4, 5, 6, or 7, if the course work is compatible with the college's curriculum. Students who have earned credit from an IB exam should not take a comparable college course because transfer credit will not be granted for both. Students should verify with a potential transfer institution the acceptance of these posted scores for IB credit. (See following page for International Baccalaureate (IB) Credit Table).

CLEP-College Level Examination Program

Students may petition the Vice President of Instruction & Student Development for approval of six units of ungraded elective credit for each general examination.

Note: Credit is not granted in the same field for both the AP and CLEP exams.

Credit by Examination

Credit may be earned by students who satisfactorily pass authorized examinations. The President/Superintendent shall ensure that administrative procedures are established to implement this policy.

(BP/**AP 4235) **AP = Administrative Procedure

Unit Defined

One class hour and two hours of outside work throughout the semester ordinarily serve as a basis for one unit of lecture credit. Three hours of laboratory work each week approximate one unit. The actual unit value of each course is listed in the course description and in class schedules. One (1) unit of credit 54 hours of lecture, study, or laboratory work.

"To Be Arranged" (TBA) Hours

Courses with regularly scheduled hours of instruction may also have "hours to be arranged" as part of the total contact hours for the course or in some situations the entire course might be on a TBA basis. TBA courses will be identified in the class schedule and in its respective course description.

Student Load

All units in which a student enrolls are used to determine a student's load. A full-time student enrolls in 12 or more units in a regular semester. Part-time students enroll in less than 12 units in a semester, or 6 units for summer session. Students who want to enroll in more than 18 units need the approval of a counselor or advisor.

Advanced Placement (AP) Credit Table

AP Examination	COLLEGE OF THE REDWOODS				IGETC CERTIFICATION			CSU GE-BREADTH CERTIFICATION			
	Scores	CR Course	CR GE Area	Sem. Units	Scores	IGETC Area	Sem. Units	Scores	CSU GE Area	Units for GE Cert.	Sem. Units
Art History	3, 4, 5	ART 1A & 1B	C	6	3, 4, 5	3A or 3B	5.3	3, 4, 5	C1 or C2	3	6
Art Studio	3, 4, 5	ART 17	C	3	3, 4, 5	-	5.3	3, 4, 5	-	-	3
Biology	3, 4, 5	BIOL 1	A	3	3, 4, 5	5B + LAB	5.3	3, 4, 5	B2 and B3	4	6
Calculus AB (or AB subscore)*	4, 5	MATH 50A	D3	4	3, 4, 5	2	2.7	3, 4, 5	B4	3	3
Calculus BC	4, 5	MATH 50A & 50B	D3	8	3, 4, 5	2	5.3	3, 4, 5	B4	3	6
Chemistry	3, 4, 5	CHEM 1A	A	5	3, 4, 5	5A + LAB	5.3	3, 4, 5	B1 and B3	4	6
Computer Science	3, 4, 5	CIS 1 or 12	D3**	4	3, 4, 5	N/A	1.3	3, 4, 5	-	-	3
English Language & Composition	3, 4, 5	ENGL 1A	D1	4	3, 4, 5	1A	5.3	3, 4, 5	A2	3	6
English Literature & Composition	3, 4, 5	ENGL 1A	D1	4	3, 4, 5	1A or 3B	5.3	3, 4, 5	A2 and C2	6	6
European History	3, 4, 5	HIST 4 & 5	B	6	3, 4, 5	3B or 4	5.3	3, 4, 5	C2 or D	3	6
French Language	3, 4, 5	FRNC 1A & 1B	C	8	3, 4, 5	6 and 3B	5.3	3, 4, 5	C2	3	6
Macroeconomics	3, 4, 5	ECON 1	B	3	3, 4, 5	4	2.7	3, 4, 5	D2	3	3
Microeconomics	3, 4, 5	ECON 10	B	3	3, 4, 5	4	2.7	3, 4, 5	D2	3	3
Music Listening & Literature	3, 4, 5	MUS 10	C	3	-	-	-	3, 4, 5	-	-	-
Physics B	3, 4, 5	PHYS 10	A	3	3, 4, 5	5A + LAB	5.3	3, 4, 5	-	-	-
Physics C	3, 4, 5	PHYS 2A	A	4	3, 4, 5	5A + LAB	2.7	3, 4, 5	B1 and B3	4	4
Psychology	3, 4, 5	PSYCH 1	B	3	3, 4, 5	4	2.7	3, 4, 5	D	3	3
Spanish Language	3, 4, 5	SPAN 1A & 1B	C	8	3, 4, 5	6 and 3B	5.3	3, 4, 5	C2	3	6
Statistics	3, 4, 5	MATH 15	D3	4	3, 4, 5	2	2.7	3, 4, 5	B4	3	3
U.S. History	3, 4, 5	HIST 8 & 9	B	6	3, 4, 5	3B or 4	5.3	3, 4, 5	C2 or D	3	6

Use of AP Test scores for CR Credit and GE are determined by CR policy. Use of AP Test scores for IGETC are determined by IGETC policy. Use of AP Test scores for CSU GE-Breadth Certification determined by CSU policy. * Score of 3 on Calculus AB, BC, or AB subscore earns 3 credits toward CR GE Area D3 and placement into MATH-50A. ** CIS-1 can be counted toward completion of CR GE Area D3, if student assessed above the MATH-120 level. CIS-12 does not meet requirements for CR GE.

International Baccalaureate (IB) Credit Table

IB Exam	COLLEGE OF THE REDWOODS				CSU			IGETC		
	CR Course	Minimum Score	CR GE AREA	Units	Minimum Score	CSU GE Area	Units	Minimum Scores	IGETC Area	Qtr./Sem Units
Biology SL		4	A	4	4	B2	4			
Biology HL		4	A	4	4	B2*	4	5	5B (without lab)	8/5.3
English A1, A2	ENGL-1A	4	D1	4	4	A2*	3	5 A1 only	1A	8/5.3
History of Americas	HIST 8, 9	4	B	6	4	D5	SL=3 HL=6	5 HL only	4	8/5.3
Language A1 (any language except English)		4	C	SL=4 HL=8	4 on HL only*	C2	3	5 on HL only	3B or 4	8/5.3
Language A2 (any language, except English)		4	C	SL=4 HL=8	4 on HL only*	C2	3	5 on HL only	3B and 6A	8/5.3
Mathematical Studies SL	Placement into MATH-5, 15, 25, 30	4	D3	3	N/A			N/A		
Mathematics SL	Placement into MATH-5, 15, 25, 30	4	D3	3	N/A			N/A		
Mathematics HL	Placement into MATH 50A, 4	4	D3	3	4	B4	3	5	2A	8/5.3
Physics HL		5	A	3	5	B1	3	5	5A (without lab)	8/5.3
Psychology HL		4	B	3	4	D9	3	5	4	8/5.3

*3 units of elective credit also awarded.

Course Examinations

Permission to be absent from or to take any exam at any time other than that originally designated may, under exceptional circumstances, be granted at the discretion of the individual instructor.

Grades; Evaluative Symbols; Grade Points		
A	excellent	4.0 grade points per unit
A-	excellent	3.7 grade points per unit
B+	good	3.3 grade points per unit
B	good	3.0 grade points per unit
B-	good	2.7 grade points per unit
C+	satisfactory	2.3 grade points per unit
C	satisfactory	2.0 grade points per unit
D	poor	1.0 grade points per unit
F	failure	0 grade points per unit
P	pass	not calculated into GPA
NP	no pass	not calculated into GPA
S	satisfactory (noncredit)	not calculated into GPA
SP	satisfactory progress (noncredit)	not calculated into GPA

Non-Evaluative symbols:		
I	incomplete; if not made up, a final grade will be an "F"	not calculated into GPA
IP	in progress	not calculated into GPA
W	withdrawal	not calculated into GPA
AU	Audit	not calculated into GPA
MW	Military Withdrawal	not calculated into GPA
<i>Final grades are permanent.</i>		

Grade Point Average (GPA)

A "grade point average" is computed each term by dividing the total grade points earned by the total units attempted.

For example, a student who earns a grade of A in six units, B in three units, C in three units, D in three units, and F in two and one-half units would have a grade-point average of 2.40. The computation is shown below:

6 units A	x 4 equals	24 grade points
3 units B	x 3 equals	9 grade points
3 units C	x 2 equals	6 grade points
3 units D	x 1 equals	3 grade points
2.5 units F	x 0 equals	0 grade points
17.5 units	total equals	42 grade points
<i>The 42 grade points divided by 17.5 units equals a 2.40 grade point average.</i>		
<i>"Cumulative grade point average" refers to the combined grade point average earned for all terms in which a student has been enrolled in college-level work at CR.</i>		

Pass/No Pass (P/NP)

Some courses are offered on a Pass/No Pass grade

option basis. See course description listings.

Regulations for Pass/No Pass are:

- "Pass" is granted if a student satisfactorily completes the minimum course requirements (i.e., earns a C grade or better).
- "No Pass" is granted when a student does not satisfactorily complete the basic course requirements. There is no grade point average penalty attached to a "no pass" grade, however; NPs are considered as non-progress (see Probation and Dismissal Policies which follow). No units are received/awarded for NP grades.
- Unit credit is awarded for a Pass grade.
- Units on a Pass/No Pass basis shall be disregarded in determining a grade point average for all purposes for which a grade point average is required.
- The Pass/No Pass option applies only to courses so identified in this catalog's course descriptions.
- Students must file their request for Pass/No Pass grading in the Admissions and Records Office at the Eureka campus or Administrative Offices at branch campuses or instructional sites. The deadlines to file these requests are listed on the admissions website at www.redwoods.edu/admissions. Click on "**Important Dates**" for appropriate term.

Incomplete Grades

Title 5, §55023 of the California Education code specifies that, under extenuating circumstances, instructors may grant students a grade of Incomplete ("I") in a course. To qualify for an "I" grade, students must meet the following conditions:

- most of the academic course work must have already been completed;
- there must be an unforeseeable and justifiable circumstances that prevent the student from completing the course in the current term;
- The student and instructor must complete and each must sign an Incomplete Contract form which includes both the conditions of the removal of the Incomplete grade, and the grade which will be assigned if the work is not completed in the stipulated time frame; and/or
- the "I" must be made up no later than one semester following the end of the term in which it was assigned (not including summer session).

In addition, students should understand that:

- students may not re-enroll in a course in which they have received an "I" grade. Students work independently with instructors to complete the remaining course requirements, including assignments, projects, and exams;
- if the work is not completed by the following term, the student will receive an "F" grade unless the instructor has indicated otherwise.

Grade Challenges

The grade recorded for a student in any course is determined by the instructor; and in the absence of error, fraud, bad faith, or incompetence, is final. A student who believes that a grade has been assigned on the basis of error, fraud, bad faith, or incompetence may appeal that grade to the faculty member who assigned it and then, if necessary, to the appropriate Division Dean. If the grade challenge is not resolved or terminated at step 2, the student may file a written appeal to the Course Grade Challenge Committee.

The decision of the Course Grade Challenge Committee is final. For more details, see the full text of BP/AP 4231 on page 158-159.

In accordance with Cal. Admin. Code Title 5, s55760

President's Honor List

The President's Honor List recognizes students who:

- have completed nine or more graded units in courses numbered 1-199, with a minimum grade point average of 3.75; and
- have received no F, D, or I grades; and
- are not on progress probation.

Dean's Honors List

The Dean's Honors List recognizes students who:

- have completed nine or more graded credit units in courses numbered 1-199, with a minimum grade point average of 3.50 - 3.74; and
- have received no F, D, or I grades; and
- are not on progress probation.

Probation, Dismissal, and Readmission

Students on probation will be ineligible for priority registration.

Failure to fulfill academic responsibilities is a serious matter. Accordingly, the following probation and dismissal policies have been established by the College.

Academic Probation

All students who have attempted at least 12 semester units and have earned a cumulative grade point average below 2.0 shall be placed on academic probation.

If the student enrolls for additional units at CR after being placed on Level I probation, the following outcomes are possible:

If the student's cumulative GPA remains below 2.0; and the term GPA is also less than 2.0 for three consecutive semesters, the student will be dismissed from College of the Redwoods and will not be eligible to register/enroll in classes for the subsequent term. In extreme cases in which a dismissal resulted from extenuating circumstances beyond the control of the student (i.e. medical issues, military orders, death in the family, per California Administrative Code, Title 5, s55024), an appeal may be made. The appeal form is available at: www.redwoods.edu/admissions.

Progress Probation

Any student who has attempted at least 12 semester units shall be placed on Progress Probation if he or she accumulates an excessive number of W, I, or NP units. Progress Probation will remain in effect until the percentage of units in which the student received a W, I, or NP becomes less than 50-percent.

If the student remains on Progress Probation for three consecutive semesters, the student will be dismissed from the College, and will not be eligible to register in classes for the subsequent term. In extreme cases in which a dismissal resulted from extenuating circumstances beyond the control of the student (i.e. medical issues, military orders, death in the family, per California Administrative Code, Title 5, s55024), an appeal may be made. The appeal form is available at: <http://www.redwoods.edu/admissions>.

Qualification for Readmission

After dismissal, a student may apply for readmission

after an absence of one of more semesters. Students must meet with a counselor to discuss readmission.

Academic Renewal

Under certain conditions, a student may request that previous terms where substandard academic performance has been recorded on his/her permanent academic record be eliminated in the computation of the cumulative grade point average. Interested students should refer to College of the Redwoods BP/AP 4240, which can be found at www.redwoods.edu/board/Board-Policies/Chapter-4-Academic-Affairs, and consult with an advisor.

Course Repetition

In accordance with Title 5, sections 55040-55046 the Redwoods District course repetition policy is as follows (subject to change per Chancellor's Office direction):

Grade Alleviation:

A student who has earned a grade of D, F, NC, or NP in a credit course designated as non-repeatable in Redwoods District may repeat the course two times for the purpose of grade alleviation. Each grade will replace the prior grade in the grade point average calculation.

If a student has enrolled three times and received a "D", "F", "N/P", "N/C" or "W", a petition to repeat is required and will be approved only in the circumstances below:

Reason to repeat	Will this petition be approved?
1. Student received an A, B, C, CR, or P in a credit class and wants to improve grade	No
2. Student received a D, F, N/C, N/P, or W after enrolling in a credit class a total of three times.	No – unless #4 applies.
3. Course is mandated for training requirements as a condition of continued volunteer or paid employment	Yes – a student may repeat an unlimited number of times. Must provide statement from employer mandating the course is required for training. All grades are counted in the GPA.
4. Extenuating Circumstances – accident, illness, evidence of altered caretaking responsibilities, change in employment hours, death in immediate family or other circumstances beyond the control of the student and occurring after the deadline to withdraw.	Yes – for students with three D, F, N/C, N/P, or W grades with an approved petition. A petition which includes documentation of extenuating circumstances that directly relate to the dates of the class must be submitted and approved. Circumstances must have occurred after the deadline to drop.

Checklist for Submitting Course Repetition

All appropriate items must be completed before your petition will be accepted by the Admissions and Records Office.

1. Complete all information requested on the petition

form.

2. Attach appropriate documentation such as:

- doctor's verification of illness;
- accident records; or
- family death.

3. Submit your signed and completed petition to the Admissions and Records Office.

The Admissions and Records Office will inform you via your @mycr.redwoods.edu student email address the result of your petition. Petitions will be reviewed the week before the term begins.

Remedial Course Work Limitation

A student's need for remedial coursework shall be determined using appropriate assessment instruments, methods, or procedures administered pursuant (Title 5 section 55500).

However, except as provided in subdivision (C) of this section, no student shall receive more than 30 semester units (or 45 quarter units) of credit for remedial course-work. Students having exhausted the unit limitation shall be referred to appropriate adult noncredit education services provided by a college, adult school, community-based organization, or other appropriate local provider. There is no limit to noncredit remedial work. The following students are exempted from the limitation on remedial course-work described in subdivision (b) of this section: (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 Section 56036.

Changes in Requirements

College of the Redwoods reserves the right to change regulations whenever it is deemed necessary, taking precautions that such changes do not cause hardship or injustice to students already enrolled at the College.

General Education at College of the Redwoods

The purpose of general education at College of the Redwoods is to encourage students to think more deeply and more broadly about their own lives and about the world in which they live. General education provides students with skills in the areas of communication, computation, and critical thinking and introduces them to the basic modes of inquiry in the various academic disciplines. It promotes an understanding of values, a sense of civic responsibility, a commitment to preserving the natural environment, an appreciation of cultural diversity, and an understanding of the inter-relationships among all societies.

General Education Statement of Philosophy

The task of general education is to prepare students to understand and deal constructively with the diversity of the contemporary world, through exposure to ideas and ways of knowing and through an expanded capacity for cultural and global awareness and sensitivity. By constructing a framework of intellectual growth, general education should develop lifelong competencies in critical and creative thinking, written and oral communication, quantitative and scientific reasoning, and problem solving.

The general education courses at College of the Redwoods have been designed to help students develop and deepen the capacity to think; obtain knowledge

on which preparation for the future depends; acquire a fuller understanding of cultures; strengthen the foundation for informed citizenship, participation in community life, and public leadership; and sustain vocational and career goals. In other words, exposure to the general education curriculum should prepare students to live in a rapidly changing world, but also to participate conscientiously in its transformation.

General Education Student Learning Outcomes

The following learning outcomes—Effective Communication, Critical Thinking, Global Awareness—will be addressed in all general education courses. Each general education course must address at least one of the bulleted outcomes under each the three categories.

1. Effective Communication.

Students should be able to:

- communicate complex aesthetic, cultural and intellectual ideas;
- communicate complex mathematical and scientific ideas;
- analyze and adapt communication on the basis of audience;
- generate, compose, revise and communicate ideas clearly, orally and in writing;
- read with comprehension;
- listen with comprehension;
- use technology to process information; and
- conduct research using appropriate methods and tools.

2. Critical Thinking.

Students should be able to:

- evaluate ideas presented in writing, media, speech or artistic representations;
- evaluate sources of information;
- analyze/interpret creative expressions, resources, data;
- use problem-solving skills effectively;
- apply the scientific method and scientific reasoning;
- apply mathematical and scientific concepts to analyze relationships; and
- make value judgments and ethical decisions.

3. Global/Cultural Context.

Students should be able to:

- analyze issues from multiple perspectives;
- express an awareness of cultures in a diverse global community;
- explain the relationships between humanity and the natural environment; and
- analyze issues within their historical context.

General Education Requirements for the Associate Degree 2017-2018

OPTION I: Associate of Science in a Specific Program

Only courses with course numbers 1-199 may be used to fulfill the requirement for this degree with the exceptions that only English 1A or an alternative writing course at the same level and rigor will meet the writing requirement.

- Completion of CR General Education requirements (18 units).
- Completion of requirements specified for the program area.
- Completion of a minimum of 60 semester units.
- Minimum cumulative GPA of 2.0 at College of the Redwoods.

OPTION II: Associate in Liberal Arts with an Area of Emphasis (AOE)

The Associate in Liberal Arts is designed for students who want a broad knowledge of the liberal arts and sciences. This degree requires the successful completion of all of the following:

1. General Education Requirement

Each student shall select one of the following options which best meets his/her educational goal.

Option A.

At least 18 units from the **College of the Redwoods General Education Pattern**. This option is appropriate for students who plan to transfer to a university in a "high unit" major which requires only a minimum of lower division general education pattern to be completed or for those who do not intend to transfer to a baccalaureate institution.

Option B.

Complete at least the minimum number of units for the **CSU Lower Division General Education Pattern**. This option is appropriate for students planning to transfer to the CSU system.

Option C.

Complete the minimum number of units required for the **Intersegmental General Education Transfer Curriculum (IGETC) Pattern**. This option is appropriate for students who are undecided regarding a baccalaureate institution or are transferring to the UC System in other than a "high unit" major.

It is recommended that the selection of the General Education Pattern option be made with the assistance of an advisor or counselor.

2. "Area of Emphasis"

Each student shall select an "Area of Emphasis" from those outlined below which best meets his/her educational goal. A minimum of 18 units is required for each Area of Emphasis. All courses listed in the "Area of Emphasis" transfer to the California State University System (CSU) and those in **BOLD** also transfer to the University of California (UC) system.

3. Electives

Elective courses may be necessary to complete the minimum of 60 units required for the Associate's degree. These courses need to be selected based upon the student's educational goal and may be necessary to also complete lower division requirements at the baccalaureate institution that may not be covered in the General Education requirements and/or the "Area of Emphasis."

4. GPA

Minimum cumulative GPA of 2.0 at College of the Redwoods.

OPTION III: Associate in Arts for Transfer -or- Associate in Science for Transfer

Associate in Arts (AA-T) and Associate in Science (AS-T) degrees that are designed specifically for transfer to the California State University System. The degrees are the results of Senate Bill 1440, a transfer bill that required the California Community Colleges to offer associate degrees for transfer in many of the most popular majors, and for the CSU to provide priority admission to California Community College students who have earned an AA-T or AS-T degree. These degrees can be completed in 60 transferable semester units (or 90 quarter units) and include coursework in general education, major preparation and electives. Additional majors are being developed.

Transfer degrees require the successful completion of all of the following:

- Completion of General Education requirements. (See Option II above for descriptions of Option B or C.) It is recommended that the selection of the General Education Pattern option be made with the assistance of a counselor or advisor.
- Completion of requirements for area of emphasis/major.
- Completion of a minimum of 60 semester units.
- Minimum cumulative GPA of 2.0 at College of the Redwoods.

Additional Degrees: To be awarded an additional degree, a student must complete a minimum of 15 credits at College of the Redwoods with a 2.0 or better in addition to the credits required for the first degree and must also complete all of the specific course requirements for the additional degree.

College of the Redwoods General Education Requirements for the Associate Degree 2017-2018		Units Required	Units Completed	Units in Progress	Units Remaining
Not Bold Type = Transfers to CSU Only Bold Type = Transfer to CSU & UC					
A. Natural Science	Agriculture 3, 5, 17, 23 Astronomy 10, 11 Biology 1, 3, 5, 8, 15, 20 Chemistry 1A, 2, 10 Computer & Electronics Technology 10	Environmental Science 10, 12 Geography 1 Geology 1, 2, 10, 15 Oceanography 10, 11(lab), 12 Physics 2A, 4A, 10	3		
B. Social Science	Agriculture 32, 33 Administration of Justice 1, 7* Anthropology 1, 1B, 2, 3*, 3H, 5*, 6 Business 10, 34 Communication Studies 2, 5, 8* Early Childhood Education 2 Economics 1, 10	Geography 2* History 4, 5, 6*, 7*, 8, 9, 11*, 12*, 20*, 21* Native American Studies 1*, 21* Political Science 1, 2, 3*, 10 Psychology 1, 3, 11, 30, 33 Sociology 1, 2, 3, 5, 9, 10, 13	3		
C. Humanities	Art 1A, 1B, 2, 4, 10, 11, 17 Cinema 1, 2, 3* Communication Studies 3 Drama 24 English 4, 9*, 10*, 17*, 18*, 60, 61 Environmental Science 11*	French 1A, 1B German 1A, 1B Music 1, 10, 12* Philosophy 1, 2, 10, 13, 14, 15, 16, 20 Sign Language 1A, 1B Spanish 1A, 1B*, 2A*, 2B* Yurok 1A	3		
D. Language and Rationality					
1. Writing	English 1A or alternative writing course at same level and rigor		3		
2. Oral Communications	Communication Studies 1, 6, 7		3		
3. Analytical Thinking	Mathematics 120, 194 or an alternative math course at the same level and rigor or higher: MATH 4, 5, 15, 25, 30, 50A . Computer Information Systems 1 or Philosophy 12 can be counted towards completion of the D3 requirement for students who assess above the MATH 120 or MATH 194 level.		3		
E. Multicultural Understanding	Choose one course. These courses will double count in one of the other general education areas listed above. * Courses marked with an asterisk above satisfy the Area E requirement. Administration of Justice 7 Anthropology 3, 3H, 5 Cinema 3 Communication Studies 8 English 9, 10, 17, 18 Environmental Science 11	Geography 2 History 6, 7, 11, 12, 20, 21 Music 12 Native American Studies 1, 21 Political Science 3 Spanish 1B, 2A, 2B Yurok 1A			
Total General Education Units Minimum			18		
Additional Requirements for Graduation		Units Required			
<p>Filing Petition: Student must file a petition to graduate on or before published deadline.</p> <ul style="list-style-type: none"> For fall consideration, Last Thursday of October For spring consideration, First Thursday in March For summer consideration, Last Thursday in June <p>Unit Requirements: A minimum of 60 semester units. However, a maximum of 4 units of physical education activity courses and 9 units of Cooperative Education may be counted toward the degree.</p> <p>Minimum GPA Requirements: A minimum cumulative grade point average of 2.0 at College of the Redwoods and a grade of C or higher in each course required for the degree except for unrestricted electives.</p> <p>Residence Requirement: Students must complete a minimum of 15 semester units and a minimum of 12 of the required units in their major coursework at College of the Redwoods.</p> <p>Credit Classes: A maximum of 14 units of Pass (P) grades completed at College of the Redwoods will apply toward the degree; only the first 14 units of pass grades on the transcript will be used toward the degree.</p> <p>Course Limitations: Courses numbered from 200 to 399 do not apply toward the A.A./A.S. degree or transfer to four year colleges and universities. Courses numbered 100-199 do apply toward the A.A./A.S. degree, but do not transfer to four year colleges and universities.</p>		<p>18 units General Education (GE) 18+ units Major/Area of Emphasis + _____ units Electives _____ at least 60 units total for AA or AS</p>			

Graduation Requirements for the Associate Degree in Liberal Arts 2017-2018			Minimum AOA Units Required	Units Completed	Units in Progress	Units Remaining
This degree requires the successful completion of at least 18.0 semester units which meets the College of the Redwoods minimum for General Education and at least 18 semester units in an Area of Emphasis and additional elective college-level courses appropriate to reach a minimum of 60.0 units for the degree. Courses satisfying Area of Emphasis requirements may also be used to meet General Education requirements. Total Units can only be counted once. Minimum cumulative GPA of 2.0 at College of the Redwoods.						
Associates Degree major "Area of Emphasis" (AOE) (Select one AOE)						
Bold Type = CSU & UC Not Bold Type = CSU Only						
1. Liberal Arts: Agriculture			18			
Agriculture 3, 7, 17, 23, 30, 51						
2. Liberal Arts: Behavioral and Social Science			18			
Core Courses: <i>minimum of 9 units</i>		Additional Courses: <i>minimum of 9 units</i>				
Administration of Justice 1 Anthropology 3 History 8 or 9 Political Science 10 Psychology 1 Sociology 1	Administration of Justice 1, 4, 5 Anthropology 1, 2, 3, 4, 5, or 6 Communication Studies 5 Economics 20 Geography 2 History 4, 5, 8, 9, 20, 21	Native American Studies 1 or 21 Political Science 1, 10, 12, 20, 30 Psychology 1, 2, 10, 11, 20, 30, 33, 38 Sociology 1, 2, 3, 5, 9, 10, 33, 34, 38				
3. Liberal Arts: Business						
Core Courses: <i>minimum of 18 units</i>			18			
Business 1A, 1B, 10, 18	Economics 1, 10, 20	Math 15				
4. Liberal Arts: Fine Arts			18			
Core Courses: <i>minimum of 18 units</i>						
Art 1A, 1B, 2, 3A, 4, 10, 11, 17, 19, 23, 31A, 35, 43A, 60	Cinema 1, 2, 3, 6 Drama 2, 24, 26, 30A, 30B	Music 1, 2A, 2B, 10, 12, 14, 25, 25L				
5. Liberal Arts: Humanities and Communications			18			
Core Courses: <i>minimum of 18 units</i>						
Art 1A, 1B Communication Studies 1, 5, 6, 7 English 1B, 9, 10, 17, 18, 32, 33, 60, 61 French 1A, 1B, 2A, 2B	German 1A, 1B, 2A, 2B History 4, 5, 8, 9, 20, 21 Japanese 1A, 1B	Philosophy 1, 10, 12, 15, 20 Sign Language 1A, 1B Spanish 1A, 1B, 2A, 2B				
6. Liberal Arts: Mathematics			18			
Core Courses: <i>minimum of 8 units</i>						
Math 50A, 50B	Math 4, 45, 50C, 55					
7. Liberal Arts: Science			18			
Core Courses: <i>1 course from two core areas</i>		Additional Courses: <i>complete 9-10 units (as needed to complete 18 units total)</i>				
Core Area 1: Chemistry 1A or 2 Core Area 2: Math 25, or 30, or 50A Core Area 3: Physics 2A or 4A	Agriculture 17 Biology 1, 3, 4, 5, 6, 7, 15 Chemistry 1A, 1B, 2, 3, 8 Forestry & Natural Resources 1, 51	Geology 1, 2 Math 15, 25, 30, 50A, 50B Oceanography 10, 11 Physics 2A, 2B, 4A, 4B, 4C				
8. Liberal Arts: Science Exploration						
Core Courses: <i>select 1 Life Science: minimum of 3 units and 1 Physical Science: minimum of 3 units</i>		Other (not counted for Core)	18			
LIFE SCIENCES Agriculture 18, 23 Biology 1, 2, 3, 4, 5, 8, 9, 15, 20 Environmental Science 10, 12, 15 Forestry & Natural Resources 5, 51, 60	PHYSICAL SCIENCES Agriculture 17 Astronomy 10, 11, 15A (lab) Chemistry 1A, 1B, 2, 3, 8 Computer & Electronics Technology 10 Environmental Science 12, 15 Forestry & Natural Resources 1 Geography 1 Geology 1, 10, 15 Meteorology 1 Oceanography 10, 11(lab), 12 Physical Science 10 Physics 2A, 2B, 4A, 10	Computer Information Systems 12, 16, 18 Forestry & Natural Resources 52, 54, 58, 65 Math 15, 25, 30, 45, 50A, 50B, 50C, 55				
Total Units			Required Units	Completed Units		
1. Required: 18-39 General Education semester units (total varies depending on GE pattern)			18-39			
2. Required: minimum of 18 semester units from one (1) "Area of Emphasis"			18			
3. Additional Elective college level courses as needed to complete 60 units total (Courses numbered 0-199)			0-24			
4. Complete 60 units TOTAL			60			

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California State University General Education (GE) Requirements for Transfer 2017-2018	Courses from other college or AP exam:	Units Required	Units Completed	Units in Progress	Units Remaining
Area A– Communication in the English Language and Critical Thinking: <i>One course from each of the three areas below for a total of 9.0 required units. All courses must be completed with a grade of “C” or better.</i>					
A-1 Oral Communication - Communication Studies 1, 6, 7		3			
A-2 Written Communication - English 1A		3			
A-3 Critical Thinking - English 1B, Philosophy 1, 12		3			
Area B – Scientific Inquiry and Quantitative Reasoning: <i>One course from each of the three areas below for a total of 9.0 required units. The Physical or Life Science course must include a lab. Lab courses are noted with an *</i>					
B-1 Physical Science - Agriculture 17*; Anthropology 6; Astronomy 10, 11; Chemistry 1A*, 2*, 10; Environmental Science 12; Geography 1; Geology 1*, 2*, 10, 15; Oceanography 10, 12; Physics 2A*, 4A*, 10		3			
B-2 Life Science - Agriculture 3, 23*, Anthropology 1; Biology 1*, 3*, 5, 8*, 15*, 20*; Environmental Science 10*		3			
B-3 Laboratory Activity - Anthropology 1B; Astronomy 15A; Oceanography 11; Courses marked (*) in B-1 and B-2					
B-4 Mathematics/Quantitative Reasoning (Grade of C or better): Math 5, 15, 25, 30, 50A		3			
Area C – Arts and Humanities: <i>9 units required with at least one course from the Arts and one from the Humanities.</i>		3			
C-1 Arts - Art 1A, 1B, 2, 4, 17; Cinema 1, 2, 3; Drama 24; Music 10, 12					
C-2 Humanities - English 4, 9, 10, 17, 18, 60, 61; Environmental Science 11; French 1A, 1B; History 4, 5, 20, 21; Philosophy 2, 10, 13, 14, 15, 16, 20; Political Science 2; Sign Language 1A, 1B; Spanish 1A, 1B, 2A, 2B		3			
C-1 Arts or C-2 Humanities		3			
Area D – Social Sciences: <i>Choose three courses from at least two disciplines for a total of 9.0 required units.</i>					
Administration of Justice 1; Agriculture 32, 33; Anthropology 1, 2, 3, 5, 6; Business 10; Communication Studies 5, 8; Economics 1, 10; Geography 2; History 4, 5, 6, 7, 8, 9, 11, 12, 18, 20, 21; Native American Studies 1, 21; Political Science 1, 3, 10, 12, 20; Psychology 1, 30; Sociology 1, 2, 5, 9, 10, 13;		9			
Note: CSU graduation requires fulfillment of a U. S. History, Constitution & American Ideals requirement, and it is highly recommended students complete these courses prior to transfer. Taking POLSC-10 and HIST-8 or HIST-9 will insure completion of this requirement and may be double-counted in Area D.					
Area E – Lifelong Learning and Self-Development: <i>3 units required</i>					
Early Childhood Education 2; General Studies 1; Health Education 1; Health Occupations 15; Kinesiology 66; Psychology 3, 11, 33; Sociology 3, 13, 33;		3			
Minimum CSU General Education Units Required		39			
Major Requirements and Any Possible Electives		21+			
Minimum Units for Transfer		60			
Maximum Units for Transfer		70			
<p><i>Students transferring to the California State University system will qualify for admission as upper division transfers if they have completed a minimum of 60 transferable units with a GPA of 2.0 (“C”) or better (non-residents 2.4 or better). Within the 60 unit requirement, the 12 units in Area A, Area B-4 (mathematics), and 18 additional semester units of general education coursework must be completed with a grade of 2.0 or better in each course. Students who complete the pattern above will have satisfied the lower division general education requirements for the California State University BA/BS degree. A minimum of 9 semester units of general education coursework must be completed at the upper division level after transfer, although some CSU campuses require more than 9 units. See a counselor for further information. Note: Courses listed under more than one discipline or area may be used only once to satisfy an area requirement.</i></p>					
Updated 06.19.17					

Transfer Requirements for the California State University System (2017-2018)

CSU: Bakersfield, Channel Islands, Chico, Dominguez Hills, East Bay (formerly Hayward), Fresno, Fullerton, Humboldt, Long Beach, Los Angeles, Maritime Academy, Monterey Bay, Northridge, Pomona, Sacramento, San Bernardino, San Diego, San Francisco, San Jose, San Luis Obispo, San Marcos, Sonoma, Stanislaus.

IMPORTANT INFORMATION:

Courses on the list on page 25 are approved for a specific academic year, which begins with the Fall 2016 semester.

The general education courses listed for the CSU system are specified within subject areas that satisfy lower division general education requirements for the CSU campuses. Students wishing to use a course to fulfill a CSU General Education requirement must be sure that the course is approved for the academic year in which it is taken. The CSU general education form changes each year. It is advised that students meet with a counselor regularly to review any changes. A course must be on the CSU GE Breadth during the term in which it is taken. If a course is taken before it is approved for inclusion, or after it is removed from the list, it cannot be used to meet the area requirement.

Minimum admission eligibility for upper division transfer applicant:

- (1) completion of at least 60 CSU transferable units with a minimum GPA of 2.0;
- (2) a minimum of 30 lower division units of General Education/ Breadth within the total 60 CSU transferable units completed; and
- (3) completion of areas A1, A2, A3 and B4 with a grade of "C" or better.

Associate Degrees for Transfer (AD-T) to CSU:

- (1) Complete 60 semester (90 quarter) CSU transferable units with a minimum GPA of 2.0;
- (2) Complete a minimum of 18 units in an approved associate degree for transfer major;
- (3) Complete all courses required in the major with a "C" or "P" or better;
- (4) Complete the CSU-GE or CSU-IGETC* general education pattern

*The associate degree for transfer can be awarded to students completing the UC-IGETC general education pattern, but completion of this pattern will not satisfy CSU admission requirements

CSU GE Breadth certification is available to community college transfer students who satisfy the general education requirements in each area. "Certification" means that CR has verified that a student has completed the lower division General Education requirements listed in each area of the CSU GE Breadth. Certification does not guarantee admission or admission eligibility. Students with full CSU GE Certification will only be responsible for an additional 9 semester units of upper division general education at the CSU campus. CSU Certification is not required and is not automatic; it must be requested by the student at the time the final official transcript is sent. Without certification, the student will be held to the specific general education requirements of the CSU campus of choice.

Students who have taken courses at other colleges can have these courses "passed along" in the certification process. College of the Redwoods will certify courses taken at other California Community Colleges in the areas designated by the offering college. Courses taken at California four-year colleges, or accredited out-of-state two-year, or four-year colleges, will be evaluated by the CR Admissions Office Evaluators. Courses from foreign institutions cannot be used in the certification process. Students requesting CSU GE "pass along" certification must complete at least 12 units in residency at College of the Redwoods.

EXTERNAL EXAMINATIONS APPROVED TO CLEAR SPECIFIC CSU GE AREAS:

Advanced Placement (AP), International Baccalaureate (IB) and College Level Examination Program (CLEP). See the current College of the Redwoods catalog pages regarding these exams that indicate equivalent general education area or elective units that could apply with appropriate scores. (Examinations may also be included in the CSU GE Certification).

IGETC Requirements 2017-2018 (Intersegmental General Education Transfer Curriculum)	Course from other college or AP exam	Units Required	Units Completed	Units in Progress	Units Remaining
Area 1 – English Communication CSU: 3 courses required, 1 from each group below UC: 2 courses required, 1 each from group A and B Group A: English Composition: English 1A Group B: Critical Thinking – English Composition: English 1B Group C: Oral Communication (CSU requirement only): Communication Studies 1		3			
		3			
		3			
Area 2 – Mathematical Concepts and Quantitative Reasoning 1 course required Group A: Math 15, 30 or 50A		3			
Area 3 – Arts and Humanities 3 courses required, with at least 1 from the Arts and 1 from the Humanities: Group A: Arts: Art 1A, 1B, 4, Cinema 1, 2, 3; Drama 24; Music 10, 12 Group B: Humanities: English 4, 9, 10, 17, 18, 60, 61; Environmental Science 11, History 4, 5, 20, 21; Philosophy 2, 10, 13, 14, 15, 16; Political Science 2; Spanish 2A, 2B Group C: Choose an additional course from either Group A or Group B		3			
		3			
		3			
Area 4 – Social and Behavioral Sciences At least 3 courses from at least 2 disciplines or an interdisciplinary sequence Administration of Justice 1; Agriculture 32; Anthropology 2, 3, 5; Communication Studies 5, 8; Economics 1, 10; Geography 2; History 6, 7, 8*, 9*, 11, 12, 20, 21; Native American Studies 1, 21; Political Science 1, 3, 10*, 20; Psychology 1, 3, 11, 30; Sociology 1, 2, 3, 5, 9, 13		3			
		3			
		3			
Area 5 – Physical and Biological Sciences At least 2 courses, for a total of 7 units, 1 physical science course and 1 biological science course, at least 1 must include a laboratory† class Group A - Physical Sciences: Astronomy 10, 11; Chemistry 1A†, 2†, 10; Environmental Science 12; Geography 1; Geology 1†, 2†, 10, 15; Oceanography 10, 12; Physics 2A†, 4A†, 10† Group B - Life Sciences: Biology 1†, 3†, 5, 8†, 15†; Environmental Science 10† Group C - Laboratory: Astronomy 15A; Oceanography 11; Courses marked (†) in Group A and Group B		3-4			
		3-4			
Minimum IGETC General Education Units Required <i>To be eligible for UC admission, students must complete 60 units of transferable college credit with a GPA of at least 2.4 (2.8 for nonresidents). The 60 units are comprised of General Education courses, major requirements and electives. See your counselor for more specific transfer information.</i>		37			
UC REQUIREMENT ONLY: Language other than English Complete 2 years of the same foreign language of high school level work with a grade of C or better, or earn a score of 3 or higher on the Foreign Language Advanced Placement test, or 550 on the College Board Achievement Test in Foreign Language or complete 4-8 units from the courses below: <input type="checkbox"/> College course(s) that meet the 1B Proficiency level, such as; French 1B; Spanish 1B, 2A, 2B; or Sign Language 1B. <input type="checkbox"/> Completed in high school <input type="checkbox"/> Competency: Test name _____ Score _____ Date _____		(4-8)			
* CSU GRADUATION REQUIREMENT ONLY: U.S. History, Constitution and American Ideals - 6 unit: Group A: Political Science 10 Group B: History 8, 9		3 3			

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ARTICULATION & TRANSFER

It is strongly recommended that students consult with a counselor to determine which general education pattern is most appropriate for their individual educational goals.

CSU GE-Breadth Requirements:

The CSU GE-Breadth Requirements is a lower division 39 semester unit pattern with selected courses in specific areas of study. Each of the areas has a minimum number of units or courses. California Community College or other certifying institution can certify up to 39 lower-division GE-Breadth semester units. Students who are certified with 39 semester units of lower-division GE-Breadth units will only be required to complete a minimum of 9 semester units of upper division general education work after transfer to the CSU campus. It is important that you request that your California Community College certify completion of California Community College coursework that meets CSU general education requirements. Certification means that CSU will accept these courses to meet the CSU GE-Breadth areas designated by your California Community College.

California Community Colleges can certify each subject area (Area A, B, C, D, E) or the whole pattern.

Associate Degree for Transfer

The new joint transfer program from the California Community Colleges and the California State Universities makes it easier for students like you to transfer between the two school systems. For the first time in California history, community college students who complete a new AA-T or AS-T will be guaranteed admission to the California State University (CSU) system. With this new degree, you have the opportunity to complete two degrees with only 120 units if you apply and are admitted into a similar degree program.

Through the new program, students who complete an AA-T or AS-T will be given a special GPA advantage when applying to CSU impacted campuses or majors.

The best part of the deal? Students with an AA-T or AS-T enter the CSU system with junior standing. Students who are admitted to a program that has been deemed similar will need only 60 more semester units (or 90 quarter units) to complete a bachelor's degree.

Find program requirements for each AA-T or AS-T with other programs in the following subjects: Administration of Justice, Anthropology, Business Administration, Communications Studies, Early Childhood Education, English, Geology, History, Kinesiology, Mathematics, Physics, Political Science, Psychology, Sociology, and Studio Arts.

Find more information about transferring with an AA-T or AS-T at www.adegree-withaguarantee.com

Intersegmental General Education Transfer Curriculum (IGETC):

The Intersegmental General Education Transfer Curriculum (IGETC) is a pattern of courses that California community college students can follow to satisfy lower-division general education requirements at any California State University (CSU) or University of California (UC) campus. Students who do not qualify for a full or partial certification of their IGETC before transfer will be required to complete the General Education pattern of the UC or CSU campus to which they transfer.

Students should be aware that additional courses are often required to fully satisfy the General Education requirements of the particular UC or CSU campus to which they transfer. IGETC is not advisable for all transfer students. Students should meet with a counselor to determine the appropriate general education option for their transfer goal. To be eligible for UC admission, students must complete 60 semester units of transferable college credit with a GPA of at least 2.4 (2.8 for nonresidents). No more than 14 semester units may be taken Pass/Not pass.

Read more about using the IGETC pattern at:

- <http://admission.universityofcalifornia.edu/counselors/transfer/advising/igetc/>
- http://icasca.org/Websites/icasca/Images/Final_IGETC_Standards_v1.2.pdf

Transfer Admission Guarantee (TAG)

Six UC campuses at Davis, Irvine, Merced, Riverside, Santa Barbara and Santa Cruz offer guaranteed admission to California Community College students who meet specific requirements.

By participating in a Transfer Admission Guarantee (TAG) program, you will receive early review of your academic records, early admission notification and specific guidance about major preparation and general education coursework. Use the online Transfer Admission Planner to complete a TAG application, and review it with your college counselor.

The Fall 2017 TAG Filing period is Sept 1-30 2016.

<http://admission.universityofcalifornia.edu/transfer/guarantee/>

Articulated Transfer agreements

College of the Redwoods negotiates agreements with a number of colleges and universities whereby, these institutions guarantee that they will accept certain College of the Redwoods courses as fulfilling specific lower division requirements in various major fields. These transfer agreements are also referred to as 'Articulation Agreements.' Transfer information for many of College of the Redwoods programs may be obtained at www.assist.org. You can also refer to the College of the Redwoods Articulation page for additional articulation information.

Use www.redwoods.edu/counseling/Articulation

Important and useful Internet sites

- www.assist.org
- <http://extranet.cccco.edu/Divisions/StudentServices.aspx>
- <https://secure.csumentor.edu/>
- <http://admission.universityofcalifornia.edu/transfer/guarantee/>
- <http://cccttransfer.org/>
- <https://secure.californiacolleges.edu/>
- <http://www.cacareercafe.com/>
- <http://www.onetonline.org/>

UC Priority Application Filing Periods:

** Check with a counselor for open filling periods**

- Fall Quarter/Semester: November 1-30
- Winter Quarter: July 1-30
- Spring Quarter: October 1-31 (except Berkeley)
- Spring Semester: UC Merced: July 1-31



Chemistry Students on the Eureka Campus



An outdoor lab at the Klamath-Trinity Instructional Site

ACADEMIC AWARDS

College of the Redwoods offers Associate Degrees for Transfer, Associate of Science (AS) degrees, Associate of Arts (AA) degrees, Certificates of Achievement (CA), and Certificates of Recognition (CR). These academic awards are available to students at the locations as indicated in the following table.

Program	Award Title	Award Type	Eureka	Del Norte	Klamath-Trinity	Page
Addiction Studies	Addiction Studies	CA	■	■		33
Administration of Justice	Administration of Justice for Transfer	AS-T	■	■		34
	Basic Law Enforcement Academy	CA	■			35
Agriculture	Agriculture, General	AS	■			37
	Agriculture Plant Science for Transfer	AS-T	■			36
	Agriculture Production	CR	■			37
	Agriculture Horticultural Practices	CR	■			38
	Liberal Arts: Agriculture	AA	■			74
Anthropology	Anthropology for Transfer	AA-T	■			39
Art	Liberal Arts: Fine Arts	AA	■	■	■	77
	Studio Arts for Transfer	AA-T	■	■	■	40
Automotive Technology	Automotive Technology	AS	■			41
	Advanced Automotive Technology	CA	■			42
	Basic Automotive Technology	CR	■			42
Behavioral and Social Science	Liberal Arts: Behavioral and Social Science	AA	■	■	■	75
Biology	Biology for Transfer	AS-T	■			43
Business	Business, General	AS	■			45
	Business, Small Business Management	CA	■			45
	Bookkeeping	CR	■			46
	Management & Supervision	CR	■			46
	Payroll Clerk	CR	■		■	47
	Liberal Arts: Business	AA	■		■	76
	Business Administration for Transfer	AS-T	■	■	■	44
Business Technology	Business Information Worker	AS	■			48
Communication	Communications Studies	AA-T	■			50
Computer Information Systems	CIS Networking	CA AS	■			51
	CIS Network Technician	CR	■			52
Construction Technology	Construction Technology	AS	■			53
	Residential Construction I	CA	■			54
	Residential Construction II	CA	■			54
	Residential Wiring	CR	■			55
	Cabinetmaking & Millwork	CA	■			55
	Fine Woodworking I	CA				56
	Fine Woodworking II	CA				56
	Solar Thermal Technician	CR	■			56
	Solar Photovoltaic Technician	CR	■			56
Electrician Trainee	CA	■			57	
Dental Assisting	Dental Assisting	CA AS	■			58
Digital Media	Digital Media	CA AS	■			60-63
Drafting Technology	Drafting and 3D Modeling	CA AS	■			64-65
Early Childhood Education	Early Childhood Education	CA AS	■	■	■	67
	Early Childhood Education for Transfer	AS-T	■	■	■	66

Program	Award Title	Award Type	Eureka	Del Norte	Klamath-Trinity	Page
English	English for Transfer	AA-T	■	■		68
Forestry & Natural Resources Technology	Forestry Technology	CA AS	■			69-70
	Geomatics	CR	■			70
Geology	Geology for Transfer	AS-T	■			71
History	History for Transfer	AA-T	■	■		72
Humanities, Language & Communication	Liberal Arts: Humanities, Language & Communication	AA	■	■	■	78
Kinesiology	Kinesiology for Transfer	AA-T	■			73
Manufacturing Technology	Manufacturing Technology	CA AS	■			82-83
	CADD/CAM Design & Manufacturing	CA AS	■			83-84
Mathematics	Liberal Arts: Mathematics	AA	■			79
	Mathematics for Transfer	AS-T	■			85
Nursing	Licensed Vocational Nursing	CA AS	■	■		86-87
	Registered Nursing	AS	■			88
	LVN/Paramedic to RN - Career Mobility	AS	■			89
	LVN to RN - 30-Unit Option	CA	■			89
Paramedic	North Coast Paramedic	CA AS	■			89-90
Philosophy	Philosophy for Transfer	AA-T	■			92
Physics	Physics for Transfer	AS-T	■			93
Political Science	Political Science for Transfer	AA-T	■	■		94
Psychology	Psychology for Transfer	AA-T	■	■	■	95
Restaurant & Hospitality Management	Restaurant Management	CA AS	■			96-97
Science	Liberal Arts: Science	AA	■			80
	Liberal Arts: Science Exploration	AA	■	■	■	81
Sociology	Sociology for Transfer	AA-T	■		■	98
Welding Technology	Welding Technology	CA AS	■			99-100
	Welding, General	CR	■			100
	Electric Arc & Oxyacetylene Welding	CR	■			101
	MIG & TIG Welding	CR	■			101
Adult Education (Noncredit)	Academic Readiness in Mathematics	NC-CY	■			102
	Career and College Foundations	NC-CY	■			102
	Community English as a Second Language	NC-CY	■			103
	Community and Career English as a Second Language	NC-CY	■			103
	Federal Wildland Firefighter	NC-CL	■			103
	State Wildland Firefighter	NC-CL	■			103
	High School Equivalency Preparation	NC-CY	■			104
	Successful Veterans in College	NC-CY	■			104
Workplace Readiness	NC-CL	■			104	

Legend
 AA-T: Associate in Arts for Transfer AS-T: Associate in Science for Transfer AA: Associate of Arts AS: Associate of Science CA: Certificate of Achievement
 CR: Certificate of Recognition NC-CL: Certificate of Completion (Noncredit) NC-CY: Certificate of Competency (Noncredit)

ASSOCIATE DEGREES & CERTIFICATES

The following section gives the course requirements for Associate degrees and certificates in specific professional and/or technical fields. For additional information regarding these programs, contact the appropriate division office or go to www.redwoods.edu/departments/

How to Read Program Information

DRAFTING TECHNOLOGY (DT)

About the program
 The Drafting and 3D Modeling program offers students the opportunity to learn skills required by today's high tech engineering, architecture, and manufacturing industries. Graduates are prepared for entry level jobs such as drafter, CAD technician, designer, engineering assistant, 3D modeler, and 3D printing technician. Graduates will be prepared to solve basic design problems using 2D and 3D CAD, provide engineering support, develop static and animated presentations, and operate 3D printers. In addition, graduates may continue on to university programs related to design, industrial technology, engineering, manufacturing, and architecture. The Drafting and 3D Modeling AS degree is accredited by the Association for Technology, Management and Applied Engineering (ATMAE).

Degrees/Certificates within this Program:

- Associate of Science Degree, Drafting & 3D Modeling
- Certificate of Achievement, Drafting & 3D Modeling

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, Construction Technology
- Certificate of Achievement, Residential Construction II
- Associate of Science Degree, Forestry and Natural Resources Technology, Forest Technology
- Certificate of Achievement, Forest Technology
- Certificate of Recognition, Geomatics

Career Opportunities
Employment opportunities in this field include:

- Drafter
- Design Technician
- Engineering Assistant
- Cartographer
- 3D Modeler
- Estimator
- Technical sales

For more information

- Steve Brown, Professor, Drafting 707-476-4347 | steve-brown@redwoods.edu www.redwoods.edu/Drafting/
- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Program Learning Outcomes

- Produce industry standard design documentation using Computer Aided Drafting (CAD) and technical sketching with an emphasis on architectural, civil design, and mechanical applications.
- Develop design concepts, renderings, and models with consideration for aesthetics, cost, methods of construction and/or manufacturing, and common industrial practices.
- Use common business communication tools such as the internet, MS Office, written reports, and oral presentations.
- Analyze/interpret/present technological concepts, creative expression, resources, & data.

Associate of Science Degree, Drafting & 3D Modeling	
	Units
General Education Requirements	18.0
Program Requirements	
Core Courses	.0
ART 17* Basic Drawing	3.0
BUS 10* Intro to Business	3.0
DT 23 Engineering Design Graphics or ENGR 23 Engineering Design Graphics	3.0
DT 25 Computer Aided Design and Drafting	4.0
DT 50 3D CAD Applications	4.0
DT 60 Mechanical Design Drafting	4.0
DT 71 Architectural Drafting Fundamentals	3.0
DT 73 Architectural Drafting - Residential Design	3.0
DT 80 Modeling and Animation	4.0
CIS 1* Computer Information Systems	4.0
IT 152 Technical Computer Applications Lab	1.0
Restricted Electives (Choose 12 units from the list below)	12.0
CIS 30 Networking Essentials	4.0
CT 50 Construction Estimating	4.0
CT 80 Carpentry Theory I	3.0
CT 81 Carpentry Theory II	3.0
DT 42 Cooperative Education Work Experience in Drafting Technology	1.0-3.0
FNR 52 Intro to Surveying	4.0
FNR 65 Intro to GIS	3.0
IT 60A Basic Manufacturing Blueprint Reading	3.0
IT 60B Machine Parts Blueprint Reading	3.0
MT 10 Fundamentals of Manufacturing Technology	3.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0

Suggested Program Sequence

Fall Start

Semester 1	DT 23 or ENGR 23, CIS 1
Semester 2	DT 25, DT 71
Semester 3	DT 50, DT 73, DT 80, IT 152
Semester 4	DT 60

Plus 12 units from Restricted Electives

Spring Start

Semester 1	DT 23 or ENGR 23, CIS 1
Semester 2	DT 50, DT 80
Semester 3	DT 25, DT 60, DT 71
Semester 4	DT 73, IT 152

Plus 12 units from Restricted Electives

Title of the program (listed from A-Z)

Type of Academic Award (degree or certificate) as it will appear on diplomas and transcripts.

Classes required to earn this award.

Suggested order of classes to complete your award in four semesters (two years).

What you will learn by getting this degree or certificate.

DEGREES AND CERTIFICATES

Definitions

Associate Degree

Associate degrees should be more than an accumulation of any degree applicable courses and must contain a minimum of 60 degree applicable units, which include general education units, at least 18 units in the major or area of emphasis, and electives. Colleges may award either an Associate of Arts (A.A) or an Associate of Science (A.S.) degree.

Associate in Liberal Arts

Designed for students who want a broad knowledge of liberal arts and sciences. The Associate in Liberal Arts must consist of a minimum of 60 units, which include general education units, at least 18 units in the area of emphasis, and may include elective units.

Associate Degree for Transfer (ADT)

Associate degrees (A.A.-T/A.S.-T) are designed to be

fully transferable to a California State University and there are no more than 60 units required.

Certificate of Achievement

For a student completing credit courses in prescribed pathways, a certificate of achievement may be awarded for a Chancellor's Office approved program of study of 18 or more units. "Low Unit" certificates may also be offered by a college and consists of 12 to 18 units. This is Chancellor's Office approved and transcriptable.

Certificate of Recognition

A credit certificate educational program that does not need Chancellor's Office approval and is not transcriptable.

Program Prerequisite

Specific course that must be completed with a grade of C or better before applying for acceptance into

a program. For specific GPA requirements, see your program of study page.

Program Learning Outcomes

Statements that describe what learners will know and be able to do when they graduate or complete a program.

Core Course

Specific course required for a program that the student must complete with a grade of C or better.

Restricted Elective

Course specifically listed as optional from which students may choose to complete a specific number of units required for a degree or certificate.

Unrestricted Elective

A credit course that is degree applicable. This excludes 200- (noncredit) and 300- (Precollegiate) level courses.

ADDICTION STUDIES

About the program

This certificate program provides an academic and experiential setting for the study of addictions, including theories, prevention and assistance techniques, and research.

Degrees/Certificates within this Program:

- Certificate of Achievement, Addiction Studies

Similar Degrees/Certificates offered at CR:

- Associate of Arts, Liberal Arts: Behavioral & Social Science

Career Opportunities

Employment opportunities in this field include:

- Drug and alcohol treatment advising
- Family and youth services
- Education rehabilitation
- Community health
- Mental health
- Employment assistance programs
- Senior programs
- Community based non-profit agencies
- Case management services

For more information

- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Certificate of Achievement, Addiction Studies

	Units
Program Requirements	
Core Courses	30.0
ADCT 10 Intro to Addiction Studies	3.0
ADCT 11 Pharmacology and Physiology of Addiction	3.0
ADCT 12 Substance Abuse: Law, Prevention, Treatment & Ethics	3.0
ADCT 13 Addictions & Co-Occurring Disorders in Special Populations	3.0
ADCT 15 Intro to Counseling Skills	3.0
ADCT 16 Addiction and the Family System	3.0
ADCT 17 Field Experience II	2.0
ADCT 38 Field Placement Seminar I or SOC 38 Field Placement Seminar I	2.0
ADCT 42 Supervised Occupational Work Experience II	2.5
SOC 34 Intro to Social Work	3.0
SOC 42 Supervised Occupational Work Experience I	2.5
Restricted Electives	6.0
<i>(Choose 6 units from the list below)</i>	
PSYCH 1 General Psychology	3.0
PSYCH 30 Social Psychology	3.0
PSYCH 33 Personal Growth and Adjustment	3.0
PSYCH 38 Abnormal Psychology	3.0
SOC 1 Intro to Sociology	3.0
SOC 2 Social Problems	3.0
SOC 5 Intro to Race and Ethnic Relations	3.0
SOC 10 Family & Intimate Relationships	3.0
Total Units	36.0
<i>Note: Students considering transfer to another college or university should see a counselor or academic advisor before selecting from the Sociology and Psychology electives listed in Restricted Electives.</i>	

About this Certificate

This certificate program provides an academic and experiential setting for the study of addictions, including theories, prevention and assistance techniques, and research. This program is certified by the California Association for Alcohol/Drug Educators. Employment opportunities in this field include drug and alcohol treatment advising, family and youth services, education, rehabilitation, community health, mental health, employment assistance programs, senior programs, community-based nonprofit agencies, and case-management services.

Suggested Program Sequence

Fall Start

Semester 1 ADCT 10, ADCT 16, SOC 34

Semester 2 ADCT 11, ADCT 12

Semester 3 ADCT 13, ADCT 15, ADCT/SOC 38, SOC 42

Semester 4 ADCT 17, ADCT 42

Plus 6 units from Restricted Electives

Program Learning Outcomes

- Develop a program tailored to the individual in support of a recovery process, and relapse prevention that will effect an improved quality of living.
- Design a process for clients to self-explore the consequences of alcoholism and other drug dependence.
- Provide current and accurate information regarding the roles of family members and others in the alcoholism/drug dependency system.
- Assist clients to establish life management skills to support a recovery process
- Maintain appropriate records in a confidential manner for the purpose of treatment planning and case management.
- Demonstrate an understanding of cultural, social, and psychological differences in populations and individuals.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

ADMINISTRATION OF JUSTICE

About the program

Programs in this field provide general and specific educational opportunities for students seeking careers in the criminal justice system, including law enforcement, courts and corrections.

Degrees/Certificates within this Program:

- Associate of Science for Transfer, Administration of Justice
- Certificate of Achievement, Basic Law Enforcement Academy

Similar Degrees/Certificates offered at CR:

- Associate of Arts, Liberal Arts: Behavioral & Social Science

Career Opportunities

Employment opportunities in this field include:

- Patrol officer
- Correctional officer in local holding facility
- Parole/Probation officer
- Natural Resources/Parks law enforcement
- Investigations
- Private Security
- Evidence storage and maintenance
- Emergency dispatch

For an example of jobs and salaries available, refer to the Peace Officer Standards and Training website at: www.post.ca.gov

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- Administration of Justice
707-476-4334
- police-academy@redwoods.edu
- www.redwoods.edu/aj
- Counseling & Advising, 707-476-4150

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Associate in Science in Administration of Justice for Transfer

	Units	CSU GE Area	IGETC Area	C-ID Descriptor
Required Core	7.0			
AJ 1* Intro to Administration of Justice	3.0	D0	4J	AJ 110
AJ 4 Criminal Law	4.0			AJ 120
List A: Select two	6.0-7.0			
AJ 6 Criminal Evidence	4.0			AJ 124
AJ 8 Criminal Investigation	3.0			AJ 140
AJ 10 Juvenile Justice	3.0			AJ 220
List B: Select two	6.0-7.0			
MATH 15* Introduction to Statistics	4.0	B4	2A	MATH 110
AJ 7 Current Issues in Administration of Justice	3.0			
AJ 3 Intro to Corrections	3.0			AJ 200
POLSC 10* US Government & Politics	3.0	D8	4H	POLS 110
Total Units for the Major:	19.0-21.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) Units		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	
* Course may be double counted toward General Education.				

About this Degree for Transfer

Completion of the Associate in Science in Administration of Justice for Transfer degree will ensure that students will be able to transfer the sixty units earned for the Associate in Science in Administration of Justice for Transfer degree to any CSU campus which offers a bachelor of science or arts degree in criminal justice. Upon completion of the Associate in Science in Administration of Justice for Transfer degree, students will be able to understand the process by which crimes are processed in the criminal justice system and the constraints justice agencies face in holding offenders accountable for their actions. Students will also be able to critically analyze current problems or challenges in the operation of the criminal justice system and offer sound solutions to some of these problems.

To meet the requirements for the Associate in Science in Administration of Justice for Transfer degree the students must:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education - Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

Degrees for Transfer also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.

Program Learning Outcomes

- Understand the roles that the three components of the administration of justice system play in society and how these components interact with one another to provide public safety.
- Recognize the many career opportunities and entry requirements that the administration of justice system has to offer.
- Identify the legal and societal restrictions placed by society on the administration of justice system in carrying out its role of providing for the public safety of society.
- Analyze current trends in the operation of the administration of justice system which concern the prevention of crime and the treatment of offenders.
- Explain, using critical thinking skills, the role other social sciences have in assisting the administration of justice system in its mission of providing public safety services to society.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Certificate of Achievement, Basic Law Enforcement Academy	
Program Requirements	Units
AJ 81 Basic Law Enforcement Academy Module III and AJ 82 Basic Law Enforcement Academy Module II and AJ 83 Basic Law Enforcement Academy Module I	8.0 8.5 16.0
Total Units	32.5

About this Certificate

Programs in this field provide general and specific educational opportunities for students seeking careers in the criminal justice system, including law enforcement, courts, and corrections.

Suggested Program Sequence Fall or Spring Start

Semester 1 AJ 81, AJ 82, AJ 83

Program Learning Outcomes

- Demonstrate required competency as determined by the Commission on Peace Officer Standards and Training including firearms qualification, defensive tactics, emergency vehicle operations, psychomotor testing and cognitive assessment on various learning domains.
- Recognize a peace officers role and legal responsibility when conducting person stops including consensual encounters, search and seizure, as well as the protections provided by constitutional law, statutory law, and case law against unreasonable searches and seizures, detentions and arrests.
- Demonstrate the ability to analyze situations, solve problems and document actions in a professional report.
- Recognize the importance of leadership, professionalism and ethics and how to become leaders in the community, in their agencies, and among peers.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

AGRICULTURE (AG)

About the program

Programs in this field provide general and specific education opportunities for students seeking careers related to agriculture, agriculture business, and plant and animal science.

Degrees/Certificates within this Program:

- Associate in Science in Agriculture Plant Science Degree for Transfer
- Associate of Science Degree, Agriculture, General
- Certificate of Recognition, Agriculture Production
- Certificate of Recognition, Horticultural Practices

Similar Degrees/Certificates offered at CR:

- Associate of Arts, Liberal Arts: Agriculture

Career Opportunities

Employment opportunities in this field include:

- Agriculture Sales and Service
- Nursery/Greenhouse Manager
- Farm Equipment Operator
- Entry Level Livestock/Food/Fiber Industry Positions
- Farm/Ranch Owner Operator

For more information

- Franz Rulofson
Professor, Agriculture
707-476-4273
franz-rulofson@redwoods.edu
www.redwoods.edu/agriculture/
- Career & Technical Division
707-476-4341
- Counseling & Advising
707-476-4150

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Describe the importance of the agriculture industry to the local, state and national economies.
- Demonstrate proficiency using technologies as they relate to the agriculture industry.
- Apply best Management practices to agriculture production scenarios.

Associate in Science in Agriculture Plant Science for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	18.0			
AG 17* Introduction to Soils	3.0	B1, B3		AG-PS 128L
CHEM 2* Introduction to Chemistry	5.0	B1, B3	5A, 5C	CHEM 101
or CHEM 1A* General Chemistry	5.0	B1, B3	5A, 5C	CHEM 110
AG 32 Introduction to Agriculture Economics	3.0			AG-AB 124
or ECON 10* Microeconomics	3.0	D2	4B	ECON 201
MATH 15* Introduction to Statistics	4.0	B4	2A	MATH 110
AG 23* Introduction to Plant Science	3.0	B2, B3		AG-PS 106L
List A: Select one	3.0			
AG 21 Plant Propagation/Production	3.0			
AG 51 Tractor Operation	3.0			
List B: Select one	0-8.0			
<i>Any course from List A not already used, or any of the following:</i>				
AG 30 Intro to Agriculture Business and Economics	3.0			
Total Units for the Major	21.0-24.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) units:		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	
* Courses can be double counted toward General Education.				

About this Degree for Transfer

The Associate in Science in Agriculture Plant Science for Transfer Degree is intended for students who plan to complete a bachelor's degree in Plant Science at a CSU campus. Students completing the Associate in Science in Agriculture Plant Science for Transfer Degree are guaranteed admission to the CSU system, but not to a particular campus or major. Courses offered by the Agriculture Program meet a wide range of lower division transfer requirements for CSU colleges. The Associate in Science in Agriculture Plant Science for Transfer Degree offers many courses designed to prepare students for transfer to the following disciplines: Agriculture, Agricultural and Environmental Plant Sciences, Agricultural Science, Plant Science, Agriculture Education, and Agriculture Studies.

Students completing the Associate in Science in Agriculture Plant Science for Transfer Degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the Associate in Science in Agriculture Plant Science for Transfer Degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. The Associate in Science in Agriculture Plant Science for Transfer 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. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Associate Degree for Transfer student completion requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education - Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0.

ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Associate of Science Degree, Agriculture, General	
	Units
General Education Requirements	18.0
Program Requirements	
Core Courses	30.0-31.0
AG 3* Intro to Animal Science	3.0
AG 7 Livestock Feeding and Nutrition	3.0
AG 17* Intro to Soil Science	3.0
AG 21 Plant Propagation/Production	3.0
AG 22 Sustainable Vegetable Production	3.0
AG 23* Intro to Plant Science or BIOL 5* General Botany	3.0 4.0
AG 30 Intro to Agriculture Business	3.0
AG 35 Agriculture Sales and Communication	3.0
AG 43 Intro to Agriculture	2.0
AG 44A Agriculture Leadership I	1.0
AG 44B Agriculture Leadership II	1.0
AG 51 Tractor Operations	3.0
AG 63 Intro to Organic/Sustainable Agriculture	3.0
Restricted Electives	4.0
<i>Complete 4.0 units from the following:</i>	
AG 42 Agriculture Cooperative Work Experience Education	1.0-3.0
AG 44C Agriculture Leadership III	1.0
AG 44D Agriculture Leadership IV	1.0
AG 64F Intro to Organic/Sustainable Agriculture Lab (Fall)	1.0
AG 64S Intro to Organic/Sustainable Agriculture Lab (Spring)	1.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>*Course may be double counted toward General Education.</i>	

About this Degree

Programs in this field provide general and specific opportunities for students seeking careers related to agriculture, agricultural business, and plant and animal science.

Suggested Program Sequence

Fall Start:

Semester 1 AG 35, AG 43, AG 44A, AG 51

Semester 2 AG 3, AG 23 or BIOL 5, AG 44B, AG 63

Semester 3 AG 7, AG 17, AG 22

Semester 4 AG 21, AG 30

Program Learning Outcomes

- Describe the importance of the agriculture industry to the local, state and national economies.
- Demonstrate proficiency using technologies as they relate to the agriculture industry.
- Apply best management practices to agriculture production scenarios.

Certificate of Recognition, Agriculture Production	
Program Requirements	Units
Core Courses	14.0
AG 3 Intro to Animal Science	3.0
AG 17 Intro to Soils	3.0
AG 35 Agriculture Sales and Communication	3.0
AG 43 Intro to Agriculture	2.0
AG 51 Tractor Operations	3.0
Restricted Electives	3.0
<i>Choose 3 units from the following:</i>	
AG 23 Intro to Plant Science	3.0
AG 42 Agriculture Cooperative Work Experience Education	1.0-3.0
AG 64F Intro to Organic/Sustainable Agriculture Lab (Fall)	1.0
AG 64S Intro to Organic/Sustainable Agriculture Lab (Spring)	1.0
Total Units	17.0

About this Certificate

Programs in this field provide general and specific opportunities for students seeking careers related to agriculture, agricultural business, and plant and animal science.

Suggested Program Sequence

Fall Start

Semester 1 AG 35, AG 43, AG 51

Semester 2 AG 3, AG 17

Plus 3 units from Restricted Electives

Program Learning Outcomes

- Describe the importance of the agriculture industry to the local, state and national economies.
- Demonstrate proficiency using technologies as they relate to the agriculture industry.
- Apply best management practices to agriculture production scenarios.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Certificate of Recognition, Horticulture Practices	
	Units
Program Requirements	
Core Courses	15.0
AG 15 Landscape Maintenance	3.0
AG 21 Plant Propagation/Production	3.0
AG 22 Sustainable Vegetable Production	3.0
AG 25 Landscape Construction and Installation	3.0
AG 27 Nursery Practices	3.0
Restricted Electives	2.0
<i>Choose 2 units from the following:</i>	
AG 51 Tractor Operation	3.0
AG 42 Agriculture Work Experience	1.0-3.0
AG 64F Intro to Organic/Sustainable Agriculture Lab (Fall)	1.0
AG 64S Intro to Organic/Sustainable Agriculture Lab (Spring)	1.0
Total Units	17.0

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Describe the importance of the agriculture industry to the local, state and national economies.
- Demonstrate proficiency using technologies as they relate to the agriculture industry.
- Apply best management practices to horticulture production scenarios.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

ANTHROPOLOGY (ANTH)

About the program

According to the American Anthropological Association, anthropology is "the study of humans, past and present. To understand the full sweep and complexity of cultures across all of human history, anthropology draws and builds upon knowledge from the social and biological sciences as well as the humanities and physical sciences. A central concern of anthropologists is the application of knowledge to the solution of human problems. Historically, anthropologists in the United States have been trained in one of four areas: sociocultural anthropology, biological/physical anthropology, archaeology, and linguistics." To that end, the following degree program provides coursework in the four subdisciplines, as well as courses within a variety of social, biological, and physical sciences, as well as the humanities. This degree prepares students to pursue seamlessly a baccalaureate degree in Anthropology at a CSU.

Degrees/Certificates within this Program:

- Associate in Arts Degree for Transfer, Anthropology

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

Counseling & Advising
707-476-4150
counseling@redwoods.edu

Associate in Arts in Anthropology for Transfer

	Units	CSU GE Area	IGETC Area	C-ID Descriptor
Required Core	9.0			
ANTH 1* Intro to Biological Anthropology	3.0	B2, D1	4A	ANTH 110
ANTH 2* Intro to Archaeology	3.0	D1	4A	ANTH 150
ANTH 3* Intro to Cultural Anthropology	3.0	D1	4A	ANTH 120
List A: Select one	3.0			
ANTH 5* Great Archaeological Discoveries	3.0	D1	4A	
List B: Select one to two	3.0-5.0			
PSYCH 2 Research Methods in Psychology	3.0			PSY 200
BIOL 6 Human Anatomy	4.0			BIOL 110B
GEOL 1* Physical Geology	4.0	B1, B3	5A, 5C	GEOL 101
GEOL 10* Environmental Geology	3.0	B1	5A	GEOL 130
List C: Select one	3.0			
<i>Any course from List B not already used or any of the following:</i>				
ANTH 1B* Intro to Biological Anthropology Lab	1.0	B3		
ANTH 4 Intro to Folklore	3.0			
ANTH 6* Intro to Forensic Anthropology	3.0	D1		
NAS 1* Intro to Native American Studies	3.0	D3	4C	
NAS 21* Native American History	3.0	D6	4F	
PHIL 15* Religions of the World	3.0	C2	3B	
GEOG 2* Cultural Geography	3.0	D5	4E	GEOG 120
SOC 1* Intro to Sociology	3.0	D0	4J	SOCI 110
SOC 5* Intro to Race and Ethnic Relations	3.0	D0	4J	SOCI 150
Total Units for the Major:	18.0-20.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) Units		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	

*Course may be double counted toward General Education.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Describe the breadth of anthropology and be able to characterize anthropology's distinctive theoretical and methodological approaches with respect to other disciplines;
- Explain the basic processes of human biological evolution, including how it applies to hominin evolution and modern human variation;
- Identify the ethical responsibilities and concerns in the conducting of anthropological research;
- Demonstrate the ability to think holistically and comparatively in describing human cultural diversity and cultural change through time; and
- Identify and utilize appropriate methods for the undertaking of anthropological fieldwork.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

STUDIO ART (ART)

About the program

Art is defined as the study and mastery of the visual language of art forms in order to effectively and persuasively contribute to the creative, intellectual, and educational life of our society. This degree program allows students to gain technical and conceptual mastery of a variety of visual mediums; critically analyze and evaluate all aspects of visual culture using contemporary, historical, and multicultural perspectives; understand the interdisciplinary nature of art making; and prepare for the specific demands of a profession in the fine and/or applied art fields. The proposed Associate in Arts in Studio Arts degree is in compliance with SB 1440 (Education Code section 66746). Students will be prepared to transfer into the CSU system to complete a baccalaureate degree in a similar major such as Art or Studio Arts. This degree prepares students to pursue a baccalaureate degree in Studio Art.

Degrees/Certificates within this Program:

- Associate in Arts for Transfer, Studio Art

Similar Degrees/Certificates offered at CR:

- Associate of Arts Degree, Liberal Arts: Fine Arts

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- www.redwoods.edu/art
- Counseling & Advising, 707-476-4150

Associate in Arts in Studio Arts for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	12.0			
ART 1B* Art History: Renaissance to Contemporary	3.0	C1	3A	
ART 10 Color and Design	3.0			ARTS 100
ART 11 Three-Dimensional Design	3.0			ARTS 101
ART 17* Basic Drawing	3.0	C1		ARTS 110
List A: Select one	3.0			
ART 1A* Art History: Pre-History to Gothic	3.0	C1	3A	
ART 6 20th Century and Contemporary Art	3.0			
List B: Select three	9.0			
ART 19 Figure Drawing	3.0			ARTS 200
or ART 18 Intermediate Drawing	3.0			ARTS 205
ART 23 Painting	3.0			ARTS 210
ART 31A Introduction to Ceramics	3.0			ARTS 230
ART 31B Introduction to Ceramics (Wheel)	3.0			
ART 3A Introduction to Sculpture	3.0			
ART 42 Introduction to Digital Illustration	3.0			
ART 35 Photography	3.0			
ART 60 Introduction to Jewelry and Metalsmithing	3.0			
ART 43A Intro to Photoshop	3.0			
Total Units for the Major	24.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) units:		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	

* Courses can be double counted toward General Education.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Create and sustain a body of work through technical mastery, experimentation, and reflective analysis
- Critically analyze, interpret, and evaluate all aspects of visual culture using a variety of historical, contemporary, and multicultural perspectives
- Demonstrate the ways that contemporary art practice creatively and critically works between or across established disciplines
- Prepare for the specific demands of a profession in the fine and/or applied art fields

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

AUTOMOTIVE TECHNOLOGY (AT)

About the program

Programs in this field provide basic and advanced educational opportunities for students seeking careers in the automotive service industry, including service technician, specialty technician, and parts or service manager.

Degrees/Certificates within this Program:

- Associate of Science Degree, Automotive Technology
- Certificate of Achievement, Advanced Automotive Technology
- Certificate of Recognition, Basic Automotive Technology

Career Opportunities

Employment opportunities in this field include:

- Automotive Service Technician
- Specialty Technician
- Parts Manager
- Service Manager

For more information

- Mike Richards, Professor, Automotive
707-476-4345 | michael-richards@redwoods.edu
www.redwoods.edu/Automotive/
- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Associate of Science Degree, Automotive Technology

	Units
General Education Requirements	18.0
Program Requirements	40.0
AT 12 Automotive Braking Systems	4.0
AT 14 Manual Transmission/Transaxle & Drive Train	4.0
AT 16 Automotive Electrical Systems	4.0
AT 18 Automotive Engine Repair	4.0
AT 20 Automotive Suspension & Steering Systems	4.0
AT 22 Automotive Electronics	4.0
AT 24 Engine Performance	4.0
AT 26 Automotive Air Conditioning and Heating	4.0
AT 28 Advanced Engine Performance	4.0
AT 30 Automatic Transmission/Transaxle	4.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0

About this Degree

Programs in this field provide basic and advanced educational opportunities for students seeking careers in the automotive service industry, including service technician, specialty technician, and parts or service manager.

Suggested Program Sequence

Fall Start

Semester 1 AT 12, AT 14, AT 16

Semester 2 AT 34, AT 22

Semester 3 AT 28, AT 20

Semester 4 AT 18, AT 26, AT 30

Program Learning Outcomes

- Successfully perform the entry level skills and tasks required for service and repair of automotive systems.
- Locate industry-standard diagnostic information to localize complex automotive problems.
- Perform common service and repair tasks identified by the National Automotive Technicians Education Foundation (NATEF).

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Certificate of Achievement, Advanced Automotive Technology	
Program Requirements	Units
AT 12 Automotive Braking Systems	4.0
AT 14 Manual Transmission/Transaxle & Drive Train	4.0
AT 16 Automotive Electrical Systems	4.0
AT 18 Automotive Engine Repair	4.0
AT 20 Automotive Suspension & Steering Systems	4.0
AT 22 Automotive Electronics	4.0
AT 24 Engine Performance	4.0
AT 26 Automotive Air Conditioning and Heating	4.0
AT 28 Advanced Engine Performance	4.0
AT 30 Automatic Transmission/Transaxle	4.0
Total Units	40.0

About this Certificate

Programs in this field provide basic and advanced educational opportunities for students seeking careers in the automotive service industry, including service technician, specialty technician, and parts or service manager.

Suggested Program Sequence

Fall Start

Semester 1 AT 12, AT 14, AT 16

Semester 2 AT 34, AT 22

Semester 3 AT 28, AT 20

Semester 4 AT 18, AT 26, AT 30

Program Learning Outcomes

- Successfully perform the entry level skills and tasks required for service and repair of automotive systems.
- Locate industry-standard diagnostic information to localize complex automotive problems.
- Perform common service and repair tasks identified by the National Automotive Technicians Education Foundation (NATEF).

Certificate of Recognition, Basic Automotive Technology	
Program Requirements	Units
AT 12 Automotive Braking Systems	4.0
AT 16 Automotive Electrical Systems	4.0
AT 20 Automotive Suspension & Steering Systems	4.0
AT 24 Engine Performance	4.0
Total Units	16.0

Suggested Program Sequence

Fall Start

Semester 1 AT 12, AT 14, AT 16

Semester 2 AT 24

Program Learning Outcomes

- Successfully perform the entry level skills and tasks required for service and repair of automotive systems.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

BIOLOGY (BIOL)

About the program

Biology is the scientific study of life, and requires a rigorous foundation in math, chemistry, and physics, as well as an introduction to the breadth of biological inquiry. Biological inquiry includes molecular, evolutionary, and ecological approaches to understanding organisms ranging from prokaryotes to unicellular and multicellular eukaryotes living in all habitats on earth. Implications of biological inquiry range from appreciation of the ways of living of diverse life forms to elucidating new medical treatments to mitigating the extinction of species due to climate change. Students who earn degrees in biology become critical thinkers generally, and are prepared to move forward with careers ranging from microbiology to medicine to ecology.

Degrees/Certificates within this Program:

- Associate in Science Degree for Transfer, Biology

Similar Degrees/Certificates offered at CR:

- Associate of Arts Degree, Liberal Arts: Science
- Associate of Arts Degree, Liberal Arts: Science Exploration

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- Counseling & Advising
707-476-4150

Program Learning Outcomes

- Apply methods of scientific inquiry to questions regarding organisms and biological processes.
- Communicate clearly both verbally and in writing regarding laboratory procedures, data analyses, and results.
- Apply concepts in mathematics, physics and chemistry to explain biological phenomena.
- Explain the mechanisms of gene expression and regulation, and how they direct cellular and organismal processes.
- Describe how evolutionary processes have generated similarity, diversity, and interconnectedness of organisms.

Associate in Science in Biology for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	12.0			
BIOL 3 Fundamental Cell Biology	4.0	B2, B3	5B, 5C	BIOL 190
BIOL 4 General Zoology	4.0			BIOL 150
BIOL 5 General Botany	4.0	B2	5B	BIOL 155
List A:	22.0			
CHEM 1A General Chemistry I	5.0	B1, B3	5A, 5C	CHEM 110
CHEM 1B General Chemistry II	5.0			CHEM 120S*
MATH 50A Differential Calculus	4.0	B4	2A	MATH 210
choose one Physics sequence:				
PHYS 2A General Physics I	4.0	B1, B3	5A, 5C	PHYS 105
PHYS 2B General Physics II	4.0			PHYS 110
OR				
PHYS 4A Calculus-Based Physics: Mechanics	4.0	B1, B3	5A, 5C	PHYS 205
PHYS 4B Calculus-Based Physics: Electricity and Magnetism	4.0			PHYS 210
Total Units for the Major:	34.0			
General Education (CSU GE or IGETC) units:		33.0**	31.0**	
Elective (UC or CSU Transferable) Units		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	
* C-ID 120S requires completion of both CHEM 1A and CHEM 1B				
** This degree assumes completion of IGETC or CSU-GE Breadth for STEM, which allows for completion of 6 units of non-STEM GE coursework after transfer.				

About this Degree for Transfer

Biology is the scientific study of life, and requires a rigorous foundation in math, chemistry, and physics, as well as an introduction to the breadth of biological inquiry. Biological inquiry includes molecular, evolutionary, and ecological approaches to understanding organisms ranging from prokaryotes to unicellular and multicellular eukaryotes living in all habitats on earth. Implications of biological inquiry range from appreciation of the ways of living of diverse life forms to elucidating new medical treatments to mitigating the extinction of species due to climate change. Students who earn degrees in biology become critical thinkers generally, and are prepared to move forward with careers ranging from microbiology to medicine to ecology.

To meet the requirements for this degree the students must:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements. The IGETC for STEM and CSU GE for STEM options permit students completing the A.S.-T in Biology to follow the IGETC or CSU GE curriculum but delay one Arts or Humanities course and one Social or Behavioral Science course until after transfer. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements (“double-counting”).
 - b. A minimum of 18 semester units in a major or area of emphasis (see Table below). Typically 38 units are required for the major but up to 10 may “double-count” as GE.
2. Obtain a minimum grade point average of 2.0, and a C or better in all courses required for the major. A “P” (Pass) is not an acceptable grade for a course required for the major.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

BUSINESS (BUS)

About the program

Programs in this field provide general and specific educational opportunities for students seeking careers in a broad variety of business settings related to management, operations, and technical support.

Degrees/Certificates within this Program:

- Associate in Science Degree for Transfer, Business Administration
- Associate of Science Degree, Business, General
- Certificate of Achievement, Small Business Management
- Certificate of Recognition, Bookkeeping
- Certificate of Recognition, Management and Supervision
- Certificate of Recognition, Payroll Clerk

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, Computer Office Support Specialist

Career Opportunities

Employment opportunities in this field include:

- Business Owner
- General Manager
- Assistant Bookkeeper
- Billing and Posting Clerk
- Office Clerk
- Payroll Technician

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- Michael Dennis
Professor, Economics, Business
707-476-4367
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- Chris Gaines, Professor, Business
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- www.redwoods.edu/business/
- Career & Technical Division
707-476-4341
- Counseling & Advising
707-476-4150

Associate in Science in Business Administration for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	17.0			
BUS 1A Financial Accounting	4.0			ACCT 110
BUS 1B Managerial Accounting	4.0			ACCT 120
BUS 18 Business Law	3.0			BUS 125
ECON 1* Macroeconomics	3.0	D2	4B	ECON 202
ECON 10* Microeconomics	3.0	D2	4B	ECON 201
List A: Select one	4.0			
MATH 15* Introduction to Statistics	4.0	B4	2A	MATH 110
List B: Select two	6.0 -7.0			
CIS 1 Computer Information Systems	4.0			IT IS 120, BUS 140
BUS 10* Intro to Business	3.0	D2		BUS 110
BUS 52 Business Communications	3.0			BUS 115
Total Units for the Major:	27.0-28.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) Units		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	

* Course may be double counted to General Education.

About this Degree for Transfer

The study of business prepares students to function, either as individuals or as part of a larger organization in the production and delivery of goods and services. The Associate in Science in Business Administration for Transfer degree is in compliance with SB 1440 (Education Code section 66746). The Associate in Science in Business Administration for Transfer degree prepares students to transfer into the CSU system to complete a baccalaureate degree in Business, Business Administration, Accounting, Finance, etc. The Associate in Science in Business Administration for Transfer degree prepares students to seamlessly pursue a baccalaureate degree in Business at a California State University.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Select and apply analytical and technological tools as they relate to personal, business, and social decisions.
- Communicate effectively as writers, listeners, and speakers in diverse social and business settings.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Associate of Science Degree, Business, General	
	Units
General Education Requirements	18.0
Program Requirements	
Core Courses	36.0
BUS 1A Financial Accounting	4.0
BUS 1B Managerial Accounting	4.0
BUS 10* Intro to Business	3.0
BUS 18 Business Law	4.0
BUS 35 Strategic Marketing	4.0
BUS 52 Business Communications	3.0
BUS 69 Small Business Entrepreneurship	4.0
CIS 1* Computer Information Systems	4.0
ECON 1* Macroeconomics	3.0
ECON 10* Microeconomics	3.0
Restricted Electives <i>(Choose 9 units from the list below)</i>	9.0
BT 3 Integrated Applications	4.0
BT 16 Word Processing I	4.0
BT 17 Word Processing II	4.0
BT 50 Database Applications	4.0
BT 51 Spreadsheet Applications	4.0
**BT 63 Desktop Publishing Applications	4.0
BUS 34* Intro to Personal Finance	3.0
BUS 68 Intro to Principles of Management	3.0
**RE 10 Principles of Real Estate	3.0
Total Units	60.0
<i>*Course may be double counted toward General Education.</i>	
<i>** Course has been inactivated. Please see Department for appropriate course substitution.</i>	

Suggested Program Sequence Fall or Spring Start

Semester 1 BUS 10, BUS 52, CIS 1
 Semester 2 BUS 18, BUS 35, ECON 1
 Semester 3 BUS 1A, ECON 10
 Semester 4 BUS 1B, BUS 69
Plus 9 units from Restricted Electives

Program Learning Outcomes

- Select and apply analytical and technological tools as they relate to personal, business and social decisions
- Communicate effectively as writers, listeners, and speakers in diverse social and business settings.
- Participate effectively in real or simulated business transactions in both the domestic and international arenas.

Certificate of Achievement, Small Business Management	
	Units
Program Requirements	
BUS 4 Advanced Computerized Bookkeeping	3.0
BUS 10 Intro to Business	3.0
BUS 18 Business Law	4.0
BUS 52 Business Communications or ENGL 150 Pre-Collegiate Reading and Writing or DM 10 Digital Storytelling	3.0 3.0 3.0
BUS 69 Small Business Entrepreneurship	4.0
BUS 180 Intro to Bookkeeping	3.0
**BUS 194 Business Mathematics or MATH 194 Intermediate Algebra for Social Sciences & Business	3.0 4.0
CIS 1 Computer Information Systems	4.0
Total Units	27.0- 28.0
<i>** Course has been inactivated. Please see Department for appropriate course substitution.</i>	

Suggested Program Sequence Fall or Spring Start

Semester 1 BUS 10, BUS 180, CIS 1, BUS 194 or MATH 194
 Semester 2 BUS 18, BUS 4, BUS 69, BUS 52 or ENGL 150
 or DM 10

Program Learning Outcomes

- Select and apply analytical and technological tools as they relate to personal and business decision making.
- Communicate effectively as writers, listeners, and speakers in business settings.
- Participate effectively in real or simulated business transactions.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Certificate of Recognition, Bookkeeping

Program Requirements	Units
BT 51 Spreadsheet Applications	4.0
BT 111 Keyboarding I or BT 112 Keyboarding Skill Development	3.0 1.0
BUS 4 Advanced Computerized Bookkeeping	3.0
BUS 10 Intro to Business	3.0
BUS 52 Business Communications	3.0
BUS 69 Small Business Entrepreneurship	4.0
BUS 180 Intro to Bookkeeping	3.0
**BUS 194 Business Mathematics or MATH 194 Intermediate Algebra for Social Sciences & Business	3.0 4.0
CIS 1 Computer Information Systems	4.0
Total Units	28.0-31.0
<i>** Course has been inactivated. See Department for appropriate course substitution.</i>	

Suggested Program Sequence

Fall Start

Semester 1 BT 51, BT 111 or BT 112, BUS 10, BUS 180, BUS 194 or MATH 194, CIS 1
Semester 2 BUS 4, BUS 52, BUS 69

Program Learning Outcomes

- Use information technology to record financial data (Intermediate)
- Apply analytical and technological tools to analyze business information. (Intermediate)
- Communicate financial data and analyses effectively. (Intermediate)

Certificate of Recognition, Management and Supervision

Program Requirements	Units
BUS 40 Independent Study	1.0
BUS 52 Business Communications	3.0
BUS 68 Intro to Principles of Management	3.0
**BUS 194 Business Mathematics or MATH 194 Intermediate Algebra for Social Sciences & Business	3.0 4.0
CIS 1 Computer Information Systems	4.0
Total Units	14.0-15.0
<i>** Course has been inactivated. See Department for appropriate course substitution.</i>	

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this certificate, please see an Advisor.

Program Learning Outcomes

- Explain best practices in management and human resources.
- Communicate effectively in a business environment.
- Analyze basic numeric data to create information relevant to a business decision-making.
- Apply information technology in the context of learning outcomes 1-3.
- Assess the effectiveness of observed real-world management and supervision practices.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Certificate of Recognition, Payroll Clerk	
Program Requirements	Units
BT 111 Keyboarding I	3.0
or BT 112 Keyboarding Skill Development	1.0
BUS 10 Intro to Business	3.0
BUS 180 Intro to Bookkeeping	3.0
**BUS 194 Business Mathematics	3.0
or MATH 194 Intermediate Algebra for Social Sciences & Business	4.0
CIS 1 Computer Information Systems	4.0
Total Units (minimum)	14.0- 17.0
<i>** Course has been inactivated. See Department for appropriate course substitution.</i>	

Suggested Program Sequence

Fall Start

Semester 1 BT 111 or BT 112, BUS 10, BUS 180, BUS 194 or MATH 194, CIS 1

Spring Start

Semester 1 BT 111 or BT 112, BUS 10, CIS 1

Semester 2 BUS 180, BUS 194 or MATH 194

Program Learning Outcomes

- Use information technology to record financial data. (Basic)
- Apply analytical and technological tools to analyze business information. (Basic)
- Communicate financial data and analyses effectively. (Basic)

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

BUSINESS TECHNOLOGY (BT)

About the program

Programs in this field provide general and specific educational opportunities for students seeking careers in a broad variety of business settings related to management, operations, and technical support.

Degrees/Certificates within this Program:

- Associate of Science Degree, Business Information Worker

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, Business, General
- Certificate of Achievement, Small Business Management
- Certificate of Recognition, Bookkeeping
- Certificate of Recognition, Management and Supervision
- Certificate of Recognition, Payroll Clerk

Career Opportunities

Employment opportunities in this field include:

- Administrative Assistant
- Office Clerk
- Receptionist
- Secretary
- Help Desk Support Technician
- Office Technology Support

For more information

- Barbara Jaffari, Professor, Business Technology/CIS
707-476-4328, barbara-jaffari@redwoods.edu
www.redwoods.edu/BusinessTech/
- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Associate of Science Degree, Business Information Worker

	Units
General Education Requirements	18.0
Program Requirements	
Core Courses	24.0
BT 111 Keyboarding I	3.0
BT 16 Word Processing I	4.0
BT 53A Beginning Technical and Professional Office Procedures	3.0
BT 53B Advanced Technical and Professional Office Procedure	3.0
BT 112 Keyboard Skill Development	1.0
BUS 10* Introduction to Business	3.0
BUS 52 Business Communications	3.0
CIS 1* Computer Information Systems	4.0
Specialization Track	14.0 - 16.0
Choose One Specialization Track ►	
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>*Course may be double counted toward General Education.</i>	

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Use database, word processing and spreadsheet applications to create and edit business documents.
- Support basic office hardware and software needs.
- Identify and implement communication, customer service and organization skills.
- Describe and implement a variety of office support tasks.
- Keyboard at a proficient level.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Office Applications Specialization	
	Units
BT 17 Word Processing II	4.0
BT 50 Database Applications	4.0
BT 51 Spreadsheet Applications	4.0
DM 10 Digital Storytelling	4.0
Total Specialization Track units	16.0

Suggested Program Sequence Fall Start

Semester 1 BT 111, BT 16, BT 53A

Semester 2 BUS 10, BUS 52, CIS 1

Semester 3 BT 51, BT 112, DM 10

Semester 4 BT 17, BT 50, BT 53B

Computer Support Specialization	
	Units
BT 50 Database Applications	4.0
CIS 30 Networking Essentials	4.0
CIS 31 Network operating Systems	4.0
CIS 98 PC Computer Repair and Maintenance	4.0
Total Specialization Track units	16.0

Suggested Program Sequence Fall Start

Semester 1 BT 111, BT 16, BT 53A

Semester 2 BUS 10, BUS 52, CIS 1

Semester 3 BT 112, CIS 30, CIS 31

Semester 4 BT 50, BT 53B, CIS 98

Digital Media Specialization	
	Units
BT 17 Word Processing II	4.0
DM 10 Digital Storytelling	4.0
DM 11 Digital Media Design	4.0
DM 63 Desktop Publishing Applications	4.0
Total Specialization Track units	16.0

Suggested Program Sequence Fall Start

Semester 1 BT 111, BT 16, BT 53A

Semester 2 BUS 10, BUS 52, CIS 1

Semester 3 BT 112, DM 10, DM 11

Semester 4 BT 17, BT 53B, DM 63

Accounting Specialization	
	Units
BT 51 Spreadsheet Applications	4.0
BUS 1A Principles of Accounting	4.0
BUS 4 Advanced Computerized Bookkeeping	3.0
BUS 180 Introduction to Bookkeeping	3.0
Total Specialization Track units	14.0

Suggested Program Sequence Fall Start

Semester 1 BT 111, BT 16, BT 53A

Semester 2 BUS 10, BUS 52, CIS 1

Semester 3 BT 51, BUS 1A, BUS 180

Semester 4 BT 53B, BT 112, BUS 4

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

COMMUNICATIONS STUDIES (COMM)

About the program

Effective communication consistently ranks among the top skills sought after by employers. The field of communication covers a wide range of topics and includes courses that enhance understanding and develop skills for transfer preparation, professional development, and personal growth. The Associate in Arts in Communications Studies for Transfer degree will provide the foundational knowledge in Communications Studies to students who want to earn a Baccalaureate Degree in Communications Studies at any of the CSU campuses. The Associate in Arts in Communications Studies for Transfer degree enhances opportunities for employment and promotion in fields including education, law enforcement, law, health care, management, organizational development, psychology, public service, sales, training, entertainment, and social services.

Degrees/Certificates within this Program:

- Associate in Arts Degree for Transfer, Communications Studies

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- Counseling & Advising
707-476-4150
counseling@redwoods.edu

Associate in Arts in Communications Studies for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	3.0			
COMM 1* Public Speaking	3.0	A1	1C	COMM 110
List A: Select two	6.0			
COMM 6 Small Group Communication	3.0			COMM 140
COMM 7* Interpersonal Communication	3.0	A1		COMM 130
List B: Select two	6.0			
COMM 5* Introduction to Mass Communication	3.0	D7	4G	JOUR 100
COMM 8* Intercultural Communication	3.0	D7	4G	COMM 150
List C: Select one	3.0			
PSYCH 1* General Psychology	3.0	D9	4I	PSY 110
SOC 1* Introduction to Sociology	3.0	D0	4J	SOCI 110
ENGL 1B* Critical Inquiry and Literature	3.0	A3	1B	ENGL 105
Total Units for the Major:	18.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) Units		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	

**Course may be double counted toward General Education.*

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Demonstrate an understanding of classical and contemporary human communication theories and their intra- and interdisciplinary natures.
- Critically analyze a wide array of evidence and reasoning to identify and provide appropriate and credible support for written and oral communication.
- Identify and demonstrate effective and appropriate written and oral communications skills, both verbal and nonverbal, in a variety of communication contexts.
- Identify and demonstrate ethical communication across a variety of contexts.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

COMPUTER INFORMATION SYSTEMS (CIS)

About the program

The Computer Information Systems (CIS) Networking program is a certified Cisco Networking Academy and provides training in local area network (LAN) and wide area network (WAN) installation, and management. Students also learn skills in computer programming, PC maintenance and repair, and network security from CompTIA Security + certified instructors.

Degrees/Certificates within this Program:

- Associate of Science Degree, CIS Networking
- Certificate of Achievement, CIS Networking
- Certificate of Recognition, Network Technician

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, Computer Office Support Specialist
- Associate of Science Degree, Digital Media
- Certificate of Achievement, Digital Media

Career Opportunities

Employment opportunities in this field include:

- Computer and Network Installers
- Computer Support Specialist
- Technical Support Technicians
- Network Technicians
- Network Systems Analyst
- Information Security Analyst

For more information

- Dan Calderwood, Professor, Computer Information Systems
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- Chris Romero, Professor, Computer Information Systems
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- www.redwoods.edu/cis/
- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Associate of Science Degree, CIS Networking

	Units
General Education Requirements	18.0
Program Requirements	
Core Courses	39.0
BT 50 Database Applications	4.0
BUS 10* Introduction to Business	3.0
CIS 1* Computer Information Systems	4.0
CIS 12 Programming Fundamentals	4.0
CIS 18 Object Oriented Programming - Java	4.0
CIS 30 CCNA: Computer Network Fundamentals	4.0
CIS 31 Network Operating Systems	4.0
CIS 33 CCNA: Scaling and Connecting Networks	4.0
CIS 35 Network Security Fundamentals	4.0
CIS 98 PC Computer Repair and Maintenance	4.0
Restricted Electives	4.0
<i>Choose 4 units from the following:</i>	
BT 16 Word Processing I	4.0
BT 17 Word Processing II	4.0
BT 51 Spreadsheet Applications	4.0
CET 10* Survey of Electronics	3.0
DM 10 Digital Storytelling	4.0
DM 20 Media Development for the Web	4.0
DM 30 Interactive Media	4.0
DT 23 Engineering Design Graphics or ENGR 23 Engineering Design Graphics	3.0 3.0
DT 80 Modeling and Animation	4.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>*Course may be double counted toward General Education.</i>	

Program Learning Outcomes

- Demonstrate professional and effective communication skills.
- Support end user technology needs.
- Configure and troubleshoot TCP/IP networks and verify end-to-end connectivity across local area and wide area networks.
- Develop applications with emphasis on critical thinking approach to programming.
- Apply fundamental security concepts to network communication, infrastructure and operations.

About this Degree

The CIS Networking AS degree provides educational opportunities for students seeking careers in local area network (LAN) and wide area network (WAN) installation, and management. Students also learn skills in computer programming, PC maintenance and repair, and network security from CompTIA Security + certified instructors.

Suggested Program Sequence

Fall Start

Semester 1 BUS 10, CIS 1
 Semester 2 BT 50, CIS 98
 Semester 3 CIS 12, CIS 30, CIS 31
 Semester 4 CIS 18, CIS 33, CIS 35
Plus 4 units from Restricted Electives

Spring Start

Semester 1 BUS 10, CIS 1
 Semester 2 CIS 12, CIS 98
 Semester 3 BT 50, CIS 18
 Semester 4 CIS 30, CIS 31
 Semester 5 CIS 33, CIS 35

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Certificate of Achievement, CIS Networking	
Program Requirements	Units
BT 50 Database Applications	4.0
BUS 10 Intro to Business	3.0
CIS 1 Computer Information Systems	4.0
CIS 12 Programming Fundamentals	4.0
CIS 30 CCNA: Computer Network Fundamentals	4.0
CIS 31 Network Operating Systems	4.0
CIS 35 Network Security Fundamentals	4.0
CIS 98 PC Computer Repair and Maintenance	4.0
Total Units	31.0

About this Certificate

The CIS Networking Certificate of Achievement provides educational opportunities for students seeking careers in local area network (LAN) and wide area network (WAN) installation, and management. Students also learn skills in computer programming, PC maintenance and repair, and network security from CompTIA Security + certified instructors.

**Suggested Program Sequence
Fall Start**

- Semester 1 BUS 10, CIS 1
- Semester 2 BT 50, CIS 98
- Semester 3 CIS 30, CIS 31
- Semester 4 CIS 12, CIS 35

Program Learning Outcomes

- Demonstrate professional and effective communication skills.
- Support end user technology needs.
- Configure and troubleshoot TCP/IP networks and verify end-to-end connectivity across local area and wide area networks.
- Develop applications with emphasis on critical thinking approach to programming.
- Apply fundamental security concepts to network communication, infrastructure and operations.

Certificate of Recognition, Network Technician	
Program Requirements	Units
CIS 30 CCNA: Computer Network Fundamentals	4.0
CIS 31 Network Operating Systems	4.0
CIS 98 PC Computer Repair and Maintenance	4.0
Total Units	12.0

About this Certificate

This certificate of recognition is targeted at individuals seeking to quickly obtain a fundamental skill-set required to enter the local workforce as an entry-level network technician.

**Suggested Program Sequence
Fall Start**

Semester 1 CIS 30, CIS 31, CIS 98

Program Learning Outcomes

- Demonstrate professional and effective communication skills.
- Support end user technology needs.
- Configure and troubleshoot TCP/IP networks and verify end-to-end connectivity across local area and wide area networks.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

CONSTRUCTION TECHNOLOGY (CT)

About the program

Programs in this field provide general and specific educational opportunities for students seeking careers related to residential and commercial building construction, historic preservation and restoration, and practical and artistic woodworking skills and techniques. The AS Degree in Construction is accredited by the Association for Technology, Management and Applied Engineering (ATMAE).

Degrees/Certificates within this Program:

- Associate of Science Degree, Construction Technology
- Certificate of Achievement, Residential Construction I
- Certificate of Achievement, Residential Construction II
- Certificate of Recognition, Residential Wiring
- Certificate of Achievement, Cabinetmaking and Millwork
- Certificate of Achievement, Electrician Trainee
- Certificate of Achievement, Fine Woodworking I
- Certificate of Achievement, Fine Woodworking II
- Certificate of Recognition, Solar Thermal Technician
- Certificate of Recognition, Solar Photovoltaic Technician

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, Architectural Drafting
- Certificate of Achievement, Architectural Drafting
- Associate of Science Degree, Civil Design
- Certificate of Achievement, Civil Design
- Associate of Science Degree, Mechanical Drafting
- Certificate of Achievement, Mechanical Drafting

Career Opportunities

Employment opportunities in this field include:

- Carpenter
- Construction Supervisor
- Building Contractor
- Building Inspector
- Construction Estimator
- Cabinetmaker
- Electrician
- Construction Laborer

For more information

- Derek Glavich, Construction Technology
707-476-4344 | derek-glavich@redwoods.edu
- Bill Hole, Construction Technology
707-476-4353 | bill-hole@redwoods.edu
- Paul Kinsey, Woodworking
707-476-4349 | paul-kinsey@redwoods.edu
- Laura Mays, Fine Woodworking
707.964.7056 | laura-mays@redwoods.edu
- www.redwoods.edu/constructiontech
- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Associate of Science Degree, Construction Technology

	Units
General Education Requirements	18.0
Program Requirements	
CT 21A Survey of Wood Technology	3.0
CT 50 Construction Estimating	4.0
CT 56 Construction Layout	2.5
CT 57A Cabinetmaking and Millwork I	3.0
CT 57B Cabinetmaking and Millwork II	3.0
CT 80 Carpentry Theory I	3.0
CT 81 Carpentry Theory II	3.0
CT 90 Beginning Carpentry I	3.0
CT 91 Beginning Carpentry II	3.0
CT 95 Intermediate Carpentry I	3.0
CT 96 Intermediate Carpentry II	3.0
DT 71 Architectural Design Drafting Techniques	3.0
DT 73 Architectural Drafting - Residential Design	3.0
DT 23 Engineering Design Graphics or ENGR 23 Engineering Design Graphics	3.0 3.0
Unrestricted Electives - as needed to complete 60.5 units total	
Total Units	60.5

About this Degree

Programs in this field provide general and specific educational opportunities for students seeking careers related to residential and commercial building construction, historic preservation and restoration, and practical and artistic woodworking skills and techniques.

Suggested Program Sequence Fall Start

Semester 1 CT 21A, CT 57A, CT 80, CT 90, ENGR 23 or DT 23
 Semester 2 CT 56, CT 57B, CT 81, CT 91, DT 71
 Semester 3 CT 95, DT 73
 Semester 4 CT 50, CT 96

Program Learning Outcomes

- Provide the local residential construction industry with a professionally trained workforce.
- Prepare students to analyze and evaluate construction project requirements in relationship to the world around them.
- Demonstrate an ability to analyze and communicate ideas effectively with co-workers and the general public.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Certificate of Achievement, Residential Construction I

Program Requirements	Units
CT 21A Survey of Wood Technology	3.0
CT 50 Construction Estimating or CT 56 Construction Layout	4.0 2.5
CT 57A Cabinetmaking and Millwork I	3.0
CT 57B Cabinetmaking and Millwork II	3.0
CT 80 Carpentry Theory I	3.0
CT 81 Carpentry Theory II	3.0
CT 90 Beginning Carpentry I	3.0
CT 91 Beginning Carpentry II	3.0
Total Units	23.5-25.0

About this Certificate

Programs in this field provide general and specific educational opportunities for students seeking careers related to residential and commercial building construction, historic preservation and restoration, and practical and artistic woodworking skills and techniques.

Suggested Program Sequence Fall Start

Semester 1 CT 21A, CT 57A, CT 80, CT 90

Semester 2 CT 56, CT 57B, CT 81, CT 91, CT 50

Program Learning Outcomes

- Understand the concepts of residential construction.
- Demonstrate the procedures, techniques, and processes in residential construction.
- Identify tools, materials, and processes used in residential carpentry.

Certificate of Achievement, Residential Construction II

Program Requirements	Units
CT 21A Survey of Wood Technology	3.0
CT 50 Construction Estimating CT 56 Construction Layout	4.0 2.5
CT 57A Cabinetmaking and Millwork I	3.0
CT 57B Cabinetmaking and Millwork II	3.0
CT 80 Carpentry Theory I	3.0
CT 81 Carpentry Theory II	3.0
CT 90 Beginning Carpentry I	3.0
CT 91 Beginning Carpentry II	3.0
CT 95 Intermediate Carpentry I	3.0
CT 96 Intermediate Carpentry II	3.0
DT 71 Architectural Drafting Techniques	3.0
DT 73 Architectural Drafting - Residential Design	3.0
ENGR 23 Engineering Design Graphics	3.0
Total Units	42.5

About this Certificate

Programs in this field provide general and specific educational opportunities for students seeking careers related to residential and commercial building construction, historic preservation and restoration, and practical and artistic woodworking skills and techniques.

Suggested Program Sequence

Semester 1 CT 21A, CT 57A, CT 80, CT 90, ENGR 23

Semester 2 CT 57B, CT 81, CT 91, DT 71

Semester 3 CT 70, CT 95, DT 73

Semester 4 CT 50, CT 56, CT 96

Program Learning Outcomes

- Communicate effectively and professionally in the construction industry through the proper use of verbal, written, and graphical techniques.
- Understand the concepts of residential construction.
- Demonstrate the procedures, techniques, and processes in residential construction.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Certificate of Recognition, Residential Wiring	
Program Requirements	Units
CT 72 Electrical Codes and Standards	2.0
CT 78A Residential Wiring I	2.0
CT 78B Residential Wiring II	2.0
CT 78C Residential Wiring III	2.0
CT 78D Residential Wiring IV	2.0
Total Units	10.0

About this Certificate

Programs in this field provide general and specific educational opportunities for students seeking careers related to residential and commercial building construction, historic preservation and restoration, and practical and artistic woodwork skills and techniques.

Suggested Program Sequence Fall Start

Semester 1 CT 78A

Semester 2 CT 72, CT 78B

Semester 3 CT 78C

Semester 4 CT 78D

Program Learning Outcomes

- Repair and install electrical wire devices in compliance with the National Electric Code.
- Interpret residential construction blueprints.
- Demonstrate safe working practices.

Certificate of Achievement, Cabinetmaking and Millwork	
Program Requirements	Units
Core Courses	15.0
CT 21A Survey of Wood Technology	3.0
CT 21B Intermediate Woodworking Technology	3.0
CT 57A Cabinetmaking and Millwork I	3.0
CT 57B Cabinetmaking and Millwork II	3.0
CT 57C Cabinetmaking and Millwork III	3.0
Restricted Electives	5.0
<i>Choose 5 units from the following:</i>	
CT 16 Architectural Millwork	3.0
CT 25 OSHA Construction Safety	2.0
CT 55 Advanced Woodworking	2.0
CT 57D Cabinetmaking and Millwork IV	3.0
CT 135 Woodworking Hand Tools and Techniques	2.0
CT 152 Open Lab for Woodworking	1.0
Total Units	20.0

About this Certificate

Programs in this field provide general and specific educational opportunities for students seeking careers related to residential and commercial building construction, historic preservation and restoration, and practical and artistic woodwork skills and techniques.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this certificate, please see an advisor.

Program Learning Outcomes

- Work in a manner and fashion that meets Woodwork Institute and general woodworking industry safety standards.
- Produce artifacts (technical work) that reflect the student's ability to design and construct furniture, cabinetry and millwork of increasing scope and complexity.
- Critically review literature, periodicals, and trade journals that relate to the cabinet and millwork industry.
- Provide a strong experience in, and understanding of, all aspects of the cabinet and millwork industry.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Certificate of Achievement, Fine Woodworking I (Mendocino Coast Only)

Program Requirements	Units
CT 130A Fine Woodworking Theory & Practice	18.0
CT 130B Fine Woodworking Theory & Practice	18.0
Total Units	36.0

Suggested Program Sequence

Fall Start

Semester 1 CT 130A

Semester 2 CT 130B

Program Learning Outcomes

- Select wood appropriate for task, according to species, properties and visual characteristics.
- Safely use, tune and care for woodworking hand tools.
- Assess and implement suitable joinery, construction and finishing techniques for cabinetmaking.
- Integrate design, construction and presentation, using high levels of craftsmanship, to create a piece of fine furniture.

Certificate of Achievement, Fine Woodworking II (Mendocino Coast Only)

Program Requirements	Units
CT 130A Fine Woodworking Theory & Practice	18.0
CT 130B Fine Woodworking Theory & Practice	18.0
CT 133A Fine Woodworking Special Studies in Cabinetmaking	16.0
CT 133B Fine Woodworking Advanced Special Studies in Cabinetmaking	16.0
Total Units	68.0

Suggested Program Sequence

Fall Start

Semester 1 CT 130A

Semester 2 CT 130B

Semester 3 CT 133A

Semester 4 CT 133B

Program Learning Outcomes

- Integrate design, construction and presentation, using high levels of craftsmanship and advanced cabinetmaking techniques, to create a piece of fine furniture.
- Contextualize the role of fine woodworking and craftsmanship, and identify possible personal career paths/routes.

Certificate of Recognition, Solar Photovoltaic Technician

Program Requirements	Units
CT 25 OSHA Construction Safety	2.0
CT 32 Photovoltaic System Design and Installation	1.0
CT 33 Intro to Solar Photovoltaic Systems	3.0
CT 78A Residential Wiring I	2.0
Total Units	8.0

Suggested Program Sequence

Fall start

Semester 1 CT 25, CT 33, CT 78A

Semester 2 CT 32

Program Learning Outcomes

- Design and install a solar photovoltaic system per standard industry practices and codes.
- Evaluate and trouble shoot a solar photo-voltaic system.
- Demonstrate safe working practices.

Certificate of Recognition, Solar Thermal Technician

Program Requirements	Units
CT 25 OSHA Construction Safety	2.0
CT 30 Solar Thermal Design and Installation	1.0
CT 31 Intro to Solar Thermal Systems	3.0
CT 78A Residential Wiring I	2.0
Total Units	8.0

Suggested Program Sequence

Fall Start

Semester 1 CT 25, CT 31, CT 78A

Semester 2 CT 30

Program Learning Outcomes

- Design and install a solar thermal system per standard industry practices and codes.
- Evaluate and trouble-shoot a solar thermal system.
- Demonstrate safe working practices.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Certificate of Achievement, Electrician Trainee	
Program Requirements	Units
CET 10 Survey of Electronics	3.0
CET 10L Electronics Lab	1.0
CT 25 OSHA Construction Safety	1.5
CT 32 Photovoltaic System Design and Installation	1.0
CT 72 Electrical Codes	2.0
CT 78A Residential Wiring I	2.0
CT 78B Residential Wiring II	2.0
CT 78C Residential Wiring III	2.0
CT 78D Residential Wiring IV	2.0
DT 23 Engineering Design Graphics	3.0
HE 7 Emergency Response: First Aid/CPR/AED	2.0
MATH 120 Intermediate Algebra	4.0
Total Units	25.5

Suggested Program Sequence

Fall Start

Semester 1 CT 78A, CT 25, DT 23

Semester 2 CT 78B, CT 72, CT 32

Semester 3 CT 78C, CET 10, CET 10L, HE 7

Semester 4 CT 78D, MATH 120

Program Learning Outcomes

- Prepared to pass state of California certification examinations.
- Attain general electrical construction, maintenance and control knowledge.
- An understanding of maintenance and repair procedures of basic electrical systems.
- The ability to perform basic code and trade standard duties to support the proper operation of electrical systems.
- An awareness of State and Federal regulations that drive the electrical industry, and the role of the electrician in protecting public safety and property from the hazards of electricity.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

DENTAL ASSISTING (DA)

About the program

Programs in this field prepare students for careers as dental assistants and for successful completion of the Registered Dental Assistant and Certified Dental Assistant Examinations. Program Applications are accepted each year February 1-August 1 on a first come, first served basis. 24 students are accepted each year. Applications can be downloaded at www.redwoods.edu/dental.

Degrees/Certificates within this Program:

- Associate of Science Degree, Dental Assisting
- Certificate of Achievement, Dental Assisting

Note: For Dental Assisting program progression and completion, a grade of "C" or better is required in all courses. For information on program prerequisites and special application procedures, contact the Dental Assisting Program Office or the department web page below.

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, Licensed Vocational Nursing
- Certificate of Achievement, Licensed Vocational Nursing
- Associate of Science Degree, Registered Nursing
- Associate of Science Degree, Paramedic/LVN to RN
- Certificate of Achievement, LVN to RN
- Associate of Science Degree, North Coast Paramedic
- Certificate of Achievement, North Coast Paramedic

Career Opportunities

Employment opportunities in this field include:

- Registered Dental Assistant
- Certified Dental Assistant

For more information

- Hillary Reed, Professor, Dental Assisting
707-476-4253 | hillary-reed@redwoods.edu
www.redwoods.edu/HOC/dental-assisting
- Health Occupations Office, 707-476-4214,
healthocc@redwoods.edu
- Counseling & Advising, 707-476-4150

Associate of Science Degree, Dental Assisting

Program Prerequisite: Eligibility for enrollment in ENGL-150 and MATH 376

	Units
General Education Requirements	18.0
Program Requirements	
Core Courses	29.0
DA 153 Dental Science	2.0
DA 154 Dental Materials and Procedures	3.0
DA 155 Dental Radiography	2.0
DA 156 Dental Assisting Fundamentals (Chairside)	5.0
DA 163 Dental Disease and Oral Health	2.0
DA 164 Dental Specialties and Extended Duties	3.0
DA 165 Advanced Dental Radiography	2.0
DA 166 Dental Front Office Skills	1.0
DA 167 Dental Clinical Experience	6.0
HO 15 Nutrition	3.0
Unrestricted Electives - as needed to complete 60 total units	
Total Units	60.0

About this Degree

Programs in this field prepare students for careers as dental assistants and for successful completion of the Registered Dental Assistant and Certified Dental Assistant Examinations.

Program Sequence Full-Time -Fall Start

Nutrition (HO 15) and Speech (COMM 1 or COMM 6 or COMM 7) are not prerequisites, however it is strongly advised that students complete these courses in the Spring or Summer semester prior to enrolling in the DA program.

Semester 1 DA 153, DA 154, DA 155, DA 156, (HO 15 and COMM 1 or COMM 6 or COMM-7)

Semester 2 DA 163, DA 164, DA 165, DA 166, (HO 15 and COMM 1 or COMM 6 or COMM 7)

Plus 13 unrestricted elective units

General Education Requirements

Natural Science: Life Science and Chemistry are encouraged and relevant to the profession, necessary for dental hygiene prerequisites

Social Science: Psychology and Sociology are encouraged and relevant to the profession, necessary for dental hygiene prerequisites

Humanities: Foreign Language or Sign Language are encouraged and relevant to the profession, necessary for dental hygiene prerequisites

Program Learning Outcomes

- Demonstrates the ability to accurately follow directions, appropriately communicate, efficiently organize, and promptly adapt when functioning as a professional team-member in the dental setting.
- Adheres to all safety guidelines/requirements as well as ethical standards when performing the permitted duties as allowed by the California Dental Practice Act to the preclinical or clinical competency level.
- Meets necessary requirements for employment as well as qualifying for State licensure (Registered Dental Assistant) and/or national certification (Certified Dental Assistant) exams upon completion of the Program.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Certificate of Achievement, Dental Assisting	
Program Requirements	Units
DA 153 Dental Science	2.0
DA 154 Dental Materials and Procedures	3.0
DA 155 Dental Radiography	2.0
DA 156 Dental Assisting Fundamentals (Chairside)	5.0
DA 163 Dental Disease and Oral Health	2.0
DA 164 Dental Specialties and Extended Duties	3.0
DA 165 Advanced Dental Radiography	2.0
DA 166 Dental Front Office Skills	1.0
DA 167 Dental Clinical Experience	6.0
HO 15 Nutrition	3.0
COMM 1 Public Speaking	3.0
or COMM 6 Small Group Communication	3.0
or COMM 7 Interpersonal Communication	3.0
Total Units	32.0

About this Certificate

Programs in this field prepare students for careers as dental assistants and for successful completion of the Registered Dental Assistant and Certified Dental Assistant Examinations.

Program Sequence

Full-Time - Fall Start

Nutrition (HO 15) and Speech (COMM 1 or COMM 6 or COMM 7) are not prerequisites, however it is strongly advised that students complete these courses in the Spring or Summer semester prior to enrolling in the DA program.

Semester 1 DA 153, DA 154, DA 155, DA 156, (HO 15 and COMM 1 or COMM 6 or COMM 7)

Semester 2 DA 163, DA 164, DA 165, DA 166, (HO 15 and COMM 1 or COMM 6 or COMM 7)

Program Learning Outcomes

- Demonstrates the ability to accurately follow directions, appropriately communicate, efficiently organize, and promptly adapt when functioning as a professional team-member in the dental setting.
- Adheres to all safety guidelines/requirements as well as ethical standards when performing the permitted duties as allowed by the California Dental Practice Act to the preclinical or clinical competency level.
- Meets necessary requirements for employment as well as qualifying for State licensure (Registered Dental Assistant) and/or national certification (Certified Dental Assistant) exams upon completion of the Program.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

DIGITAL MEDIA (DM)

About the program

Programs in this field provide general and specific educational opportunities for students seeking careers related to digital media creation and development, including audio, video, graphics, animation, and applications.

Degrees/Certificates within this Program:

- Associate of Science Degree, Digital Media
- Certificate of Achievement, Digital Media

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, CIS Networking
- Certificate of Achievement, CIS Networking
- Certificate of Recognition, Network Technician

Career Opportunities

Employment opportunities in this field include:

- Graphic Designer
- Desktop Publisher
- Video Editor
- Motion Graphics Designer
- Multimedia Artist & Animator
- Game Programmer
- Game Artist & Designer

For more information

- Montel Vander Horck, Professor, Digital Media
707-476-4305 | montel-vanderhorck@redwoods.edu
www.redwoods.edu/dm
- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Associate of Science Degree, Digital Media

	Units
General Education Requirements	18.0
Program Requirements	
Core Courses	40.0
ART 10* Color & Design	3.0
BUS 10* Intro to Business	3.0
CIS 1* Computer Information Systems	4.0
DM 10 Digital Storytelling	4.0
DM 11 Digital Media Design	4.0
DM 15 Pre-Production	3.0
DM 20 Media Development for the Web	4.0
DM 22 Digital Publishing	4.0
DM 30 Interactive Media	4.0
DM 63 Desktop Publishing Applications	4.0
COMM 5* Intro to Mass Communication	3.0
Specialization Track	9.0-11.0
Choose One Specialization Track ►	
Unrestricted Electives - as needed to complete 60 units total	
Total Units	61.0-63.0
<i>*Course may be double counted toward General Education.</i>	

About this Degree

Programs in this field provide general and specific educational opportunities for students seeking careers related to digital media creation and development, including audio, video, graphics, animation, and applications.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Conceptualize, design, develop, and deliver ideas, values, and stories to defined audiences for defined purposes through visual and aural media.
- Recognize problems and implement solutions by using varied resources to meet defined objectives or expectations.
- Communicate effectively and contribute production expectations in a team environment to meet deadlines for media-based products.
- Adapt to changes in media technologies while utilizing similarities in development tools (hardware and software) to build new skills on existing skills.
- Demonstrate abilities to follow directions and adapt personal style to develop and deliver content as defined by client, audience, and/or purpose.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

2D and 3 D Animation Specialization Track	
	Units
DM 24A Animation Principles	3.0
DM 24B Cartoon Animation	4.0
DT 80 Modeling and Animation	4.0
Total Specialization Track units	11.0

Suggested Program Sequence
Fall Start

Semester 1 CIS 1, DM 10, DM 11, DM 15
 Semester 2 ART 10, BUS 10, DM 20
 Semester 3 DM 22, DM 24A, DT 80, COMM 5
 Semester 4 DM 24B, DM 30, DM 63

Spring Start

Semester 1 ART 10, BUS 10, CIS 1, DM 10
 Semester 2 DM 11, DM 15, DM 24A
 Semester 3 DM 24B
 Semester 4 DM 22, COMM 5, DT 80

Video/Motion Graphics Specialization Track	
	Units
DM 23 Motion Graphics	4.0
DM 56 Video Production	4.0
DM 73 Intro to Digital Audio	0.5
DM 74 Intro to Digital Video	0.5
Total Specialization Track units	9.0

Suggested Program Sequence
Fall Start

Semester 1 CIS 1, DM 10, DM 11, DM 15, DM 73, DM 74
 Semester 2 ART 10, BUS 10, DM 20, DM 56
 Semester 3 DM 22, DM 23, COMM 5
 Semester 4 DM 30, DM 63

Spring Start

Semester 1 ART 10, BUS 10, CIS 1, DM 10
 Semester 2 DM 11, DM 15, DM 73, DM 74
 Semester 3 DM 20, DM 30, DM 56, DM 63
 Semester 4 DM 22, DM 23, COMM 5

Game Development Specialization Track	
	Units
DM 7 Intro to Game Development	4.0
DM 24A Animation Principles	3.0
DT 80 Modeling and Animation	4.0
Total Specialization Track units	11.0

Suggested Program Sequence
Fall Start

Semester 1 DM 10, DM 11, DM 15, DM 24A, CIS 1
 Semester 2 ART 10, BUS 10, DM 7, DM 20
 Semester 3 DM 22, DT 80, COMM 5
 Semester 4 DM 30, DM 63

Spring Start

Semester 1 ART 10, BUS 10, CIS 1, DM 10
 Semester 2 DM 11, DM 15, DM 24A
 Semester 3 DM 7, DM 20, DM 30, DM 63
 Semester 4 DM 22, DT 80, COMM 5

Graphic Design Specialization Track	
	Units
ART 17* Basic Drawing	3.0
ART 19 Figure Drawing or ART 35 Digital Photography	3.0
ART 43A Intro to Photoshop or ART 43B Intermediate Photoshop	3.0
DM 70A Photoshop I or DM 70B Photoshop II	0.5
DM 71 Digital Illustration	0.5
Total Specialization Track units	10.0

Suggested Program Sequence
Fall Start

Semester 1 CIS 1, DM 10, DM 11, DM 15, DM 70A or DM 70B
 Semester 2 ART 10, ART 17, BUS 10, DM 20, DM 71
 Semester 3 ART 19 or ART 35, DM 22, COMM 5
 Semester 4 ART 43A or ART 43B, DM 30, DM 63

Spring Start

Semester 1 ART 10, BUS 10, CIS 1, DM 10, DM 70A or DM 70B
 Semester 2 ART 17, DM 11, DM 15
 Semester 3 DM 20, DM 30, DM 63, DM 71
 Semester 4 ART 19 or ART 35, ART 43A or ART 43B, DM 22, COMM 5

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Certificate of Achievement, Digital Media	
Program Requirements	Units
Core Courses	34.0
CIS 1 Computer Information Systems	4.0
DM 10 Digital Storytelling	4.0
DM 11 Digital Media Design	4.0
DM 15 Pre-Production	3.0
DM 20 Media Development for the Web	4.0
DM 22 Digital Publishing	4.0
DM 30 Interactive Media	4.0
DM 63 Desktop Publishing Applications	4.0
COMM 5 Intro to Mass Communication	3.0
Specialization Track	9.0-11.0
Choose One Specialization Track ►	
Total Units	43.0-45.0

About this Certificate

Programs in this field provide general and specific educational opportunities for students seeking careers related to digital media creation and development, including audio, video, graphics, animation, and applications.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this certificate, please see an Advisor.

Program Learning Outcomes

- Conceptualize, design, develop, and deliver ideas, values, and stories to defined audiences for defined purposes, through visual and aural media.
- Recognize problems and implement solutions by using varied resources to meet defined objectives or expectations.
- Communicate effectively and contribute production expectations in a team environment to meet deadlines for media-based products.
- Adapt to changes in media technologies while utilizing similarities in development tools (hardware and software) to build new skills on existing skills.
- Demonstrate abilities to follow directions and adapt personal style to develop and deliver content as defined by client, audience, and/or purpose.

2D and 3 D Animation Specialization Track	
	Units
DM 24A Animation Principles	3.0
DM 24B Cartoon Animation	4.0
DT 80 Modeling and Animation	4.0
Total Specialization Track units	11.0

Suggested Program Sequence

Fall Start

Semester 1 CIS 1, DM 10, DM 11, DM 15

Semester 2 DM 20

Semester 3 DM 22, DM 24A, DT 80, COMM 5

Semester 4 DM 24B, DM 30, DM 63

Spring Start

Semester 1 CIS 1, DM 10

Semester 2 DM 11, DM 15, DM 73, DM 74

Semester 3 DM 20, DM 24A, DM 30, DM 63

Semester 4 DM 22, DT 80, COMM 5

Video/Motion Graphics Specialization Track	
	Units
DM 23 Motion Graphics	4.0
DM 56 Video Production	4.0
DM 73 Intro to Digital Audio	0.5
DM 74 Intro to Digital Video	0.5
Total Specialization Track units	9.0

Suggested Program Sequence

Fall Start

Semester 1 CIS 1, DM 10, DM 11, DM 15, DM 73, DM 74

Semester 2 DM 20, DM 56

Semester 3 DM 22, DM 23, COMM 5

Semester 4 DM 30, DM 63

Spring Start

Semester 1 CIS 1, DM 10

Semester 2 DM 11, DM 15, DM 73, DM 74

Semester 3 DM 20, DM 30, DM 56, DM 63

Semester 4 DM 22, DM 23, COMM 5

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Game Development Specialization Track	
	Units
DM 7 Intro to Game Development	4.0
DM 24A Animation Principles	3.0
DT 80 Modeling and Animation	4.0
Total Specialization Track units	11.0

Suggested Program Sequence

Fall Start

Semester 1 DM 10, DM 11, DM 15, DM 24A, CIS 1

Semester 2 DM 7, DM 20

Semester 3 DM 22, DT 80, COMM 5

Semester 4 DM 30, DM 63

Spring Start

Semester 1 CIS 1, DM 10

Semester 2 DM 11, DM 15, DM 24A

Semester 3 DM 7, DM 20, DM 30, DM 63

Semester 4 DM 22, DT 80, COMM 5

Graphic Design Specialization Track	
	Units
ART 17* Basic Drawing	3.0
ART 19 Figure Drawing or ART 35 Digital Photography	3.0
ART 43A Intro to Photoshop or ART 43B Intermediate Photoshop	3.0
DM 70A Photoshop I or DM 70B Photoshop II	0.5
DM 71 Digital Illustration	0.5
Total Specialization Track units	10.0

Suggested Program Sequence

Fall Start

Semester 1 CIS 1, DM 10, DM 11, DM 15, DM 70A or DM 70B

Semester 2 ART 17, DM 20, DM 71

Semester 3 ART 19 or ART 35, DM 22, COMM 5

Semester 4 ART 43A or ART 43B, DM 30, DM 63

Spring Start

Semester 1 CIS 1, DM 10, DM 70A or DM 70B

Semester 2 ART 17, DM 11, DM 15

Semester 3 DM 20, DM 30, DM 63, DM 71

Semester 4 ART 19 or ART 35, ART 43A or ART 43B, DM 22, COMM 5

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

DRAFTING TECHNOLOGY (DT)

About the program

The Drafting and 3D Modeling program offers students the opportunity to learn skills required by today's high tech engineering, architecture, and manufacturing industries. The Drafting and 3D Modeling AS degree is accredited by the Association for Technology, Management and Applied Engineering (ATMAE).

Degrees/Certificates within this Program:

- Associate of Science Degree, Drafting & 3D Modeling
- Certificate of Achievement, Drafting & 3D Modeling

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, Construction Technology
- Certificate of Achievement, Residential Construction II
- Associate of Science Degree, Forestry and Natural Resources Technology, Forest Technology
- Certificate of Achievement, Forest Technology
- Certificate of Recognition, Geomatics
- Associate of Science Degree, CADD/CAM Design and Manufacturing
- Certificate of Achievement, CADD/CAM Design and Manufacturing
- Associate of Science Degree, Manufacturing Technology
- Certificate of Achievement, Manufacturing Technology

Career Opportunities

Employment opportunities in this field include:

- Drafter
- Design Technician
- Engineering Assistant
- Cartographer
- 3D Modeler
- Estimator
- Technical sales

For more information

- Steve Brown, Professor, Drafting
707-476-4347 | steve-brown@redwoods.edu
www.redwoods.edu/Drafting/
- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

About this Degree

The Drafting and 3D Modeling degree offers students the opportunity to learn skills required by today's high tech engineering, architecture, and manufacturing industries. Graduates are prepared for entry level jobs such as: drafter, CAD technician, designer, engineering assistant, 3D modeler, and 3D printing technician. Graduates will be prepared to solve basic design problems using 2D and 3D CAD, provide engineering support, develop static and animated presentations, and operate 3D printers. In addition, graduates may continue on to university programs related to design, industrial technology, engineering, manufacturing, and architecture. The Drafting and 3D Modeling A.S. Degree is accredited by the Association for Technology, Management, and Applied Engineering (ATMAE).

Suggested Program Sequence

Fall Start

Semester 1 DT 23 or ENGR 23, CIS 1

Semester 2 DT 25, DT 71

Semester 3 DT 50, DT 73, DT 80

Semester 4 DT 60, IT 152

Plus 12 units from Restricted Electives

Spring Start

Semester 1 DT 23 or ENGR 23, CIS 1

Semester 2 DT 50, DT 80

Semester 3 DT 25, DT 60, DT 71, IT 152

Semester 4 DT 73

Plus 12 units from Restricted Electives

Associate of Science Degree, Drafting & 3D Modeling

	Units
General Education Requirements	18.0
Program Requirements	
Core Courses	32.0
ART 17* Basic Drawing	3.0
BUS 10* Intro to Business	3.0
DT 23 Engineering Design Graphics or ENGR 23 Engineering Design Graphics	3.0
DT 25 Computer Aided Design and Drafting	4.0
DT 50 3D CAD Applications	4.0
DT 60 Mechanical Design Drafting	4.0
DT 71 Architectural Drafting Fundamentals	3.0
DT 73 Architectural Drafting - Residential Design	3.0
DT 80 Modeling and Animation	4.0
CIS 1* Computer Information Systems	4.0
IT 152 Technical Computer Applications Lab	1.0
Restricted Electives <i>(Choose 12 units from the list below)</i>	12.0
CIS 30 Networking Essentials	4.0
CT 50 Construction Estimating	4.0
CT 80 Carpentry Theory I	3.0
CT 81 Carpentry Theory II	3.0
DT 42 Cooperative Education Work Experience in Drafting Technology	1.0-3.0
FNR 52 Intro to Surveying	4.0
FNR 65 Intro to GIS	3.0
IT 60A Basic Manufacturing Blueprint Reading	3.0
IT 60B Machine Parts Blueprint Reading	3.0
MT 10 Fundamentals of Manufacturing Technology	3.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0

**Course may be double counted toward General Education.*

Program Learning Outcomes

- Produce industry standard design documentation using Computer Aided Drafting (CAD) and technical sketching with an emphasis on architectural, civil design, and mechanical applications.
- Develop design concepts, renderings, and models with consideration for aesthetics, cost, methods of construction and/or manufacturing, and common industrial practices.
- Use common business communication tools such as the internet, MS Office, written reports, and oral presentations.
- Analyze/interpret/present technological concepts, creative expression, resources, & data.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Certificate of Achievement, Drafting & 3D Modeling	
Program Requirements	Units
DT 23 Engineering Design Graphics or ENGR 23 Engineering Design Graphics	3.0 3.0
DT 25 Computer Aided Design and Drafting	4.0
DT 50 3D CAD Applications	4.0
DT 60 Mechanical Design Drafting	4.0
DT 71 Architectural Drafting Fundamentals	3.0
DT 73 Architectural Drafting - Residential Design	3.0
DT 80 Modeling and Animation	4.0
CIS 1 Computer Information Systems	4.0
IT 152 Technical Computer Applications Lab	1.0
Total Units	30.0

About this Certificate

The Drafting and 3D Modeling Certificate of Achievement offers students the opportunity to learn skills required by today's high tech engineering, architecture, and manufacturing industries. Completers are prepared for entry level jobs such as: drafter, CAD technician, designer, engineering assistant, 3D modeler, and 3D printing technician. Completers will be prepared to solve basic design problems using 2D and 3D CAD, provide engineering support, develop static and animated presentations, and operate 3D printers.

Suggested Program Sequence Fall Start

Semester 1 DT 23 or ENGR 23, CIS 1
 Semester 2 DT 25, DT 60, DT 71
 Semester 3 DT 50, DT 73, DT 80, IT 152

Spring Start

Semester 1 DT 23 or ENGR 23, CIS 1
 Semester 2 DT 50, DT 80
 Semester 3 DT 26, DT 60, DT 71
 Semester 4 DT 73, IT 152

Program Learning Outcomes

- Produce industry standard design documentation using Computer Aided Drafting (CAD) and technical sketching with an emphasis on architectural, civil design, and mechanical applications.
- Develop design concepts, renderings, and models with consideration for aesthetics, cost, methods of construction and/or manufacturing, and common industrial practices.
- Use common business communication tools such as the internet, MS Office, written reports, and oral presentations.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

EARLY CHILDHOOD EDUCATION (ECE)

About the program

Programs in this field prepare students for work with young children in a variety of settings including family child care and center-based child care settings licensed by the State of California. The scope of programs ranges from care for infants and toddlers to preschool and school-age children.

Degrees/Certificates within this Program:

- Associate in Science Degree for Transfer, Early Childhood Education
- Associate of Science Degree, Early Childhood Education
- Certificate of Achievement, Early Childhood Education
- All levels of the California Child Development Permit from Assistant to the Site Supervisor

Career Opportunities

Employment opportunities in this field include:

- Licensed Family Child Care Provider
- Preschool Teacher
- Infant-Toddler Teacher
- School-Aged Child Care Teacher
- Mentor/Master Teacher
- Child Care Program Director
- Resource and Referral Specialist
- Respite Worker
- Home Visitor
- Family Services Worker
- Early Interventionist I (Special Needs Aide)
- Para-educators (public school classroom aides)

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- Darius Kalvaitis, Assistant Professor
Early Childhood Education
707-476-4338
darius-kalvaitis@redwoods.edu
- www.redwoods.edu/ece/
- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Associate in Science in Early Childhood Education for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	24.0			
ECE 2* Child Growth and Development	3.0			CDEV 100
ECE 5 The Child in the Family and the Community	3.0			CDEV 110
ECE 1 Principles and Practices of Teaching Young Children	3.0			ECE 120
ECE 7 Introduction to Early Childhood Curriculum	3.0			ECE 130
ECE 9 Observation and Assessment in Early Childhood Education	3.0			ECE 200
ECE 10 Field Experience in Early Childhood Education	3.0			ECE 210
ECE 6 Child Health, Safety and Nutrition	3.0			ECE 220
ECE 18 Teaching in a Diverse Society	3.0			ECE 230
Total Units for the Major	24.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) units:		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	61.0**	

* Course may be double counted toward General Education.

**The total degree units for this ADT is 61 units if a student follows the IGETC.

NOTE: Effective Fall 2016, students enrolled in ECE Lab Courses (ECE 7 & ECE 10) will require proof of immunizations or immunity for: Measles, Pertussis, and Influenza.

About this Degree for Transfer

The Associate in Science in Early Childhood Education for Transfer provides a clearly articulated curricular track for students transferring to a CSU campus. Students learn the core principles and practices of the ECE field in order to build a foundation for their future personal, academic, or vocational paths. The degree will facilitate students' successful transfer to certain California State University (CSU) campuses in preparation for a Bachelor degree in ECE/Child Development. The Associate in Science in Early Childhood Education for Transfer provides students with a major that fulfills the general requirements of the California State University for transfer. Students with this degree will receive priority admission with junior status to certain California State University campuses through the state-wide Curriculum Alignment Project (Lower Division Eight Courses).

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Demonstrate knowledge of a variety of types of program for young children, the history of early care and education in the United States, and the ethical standards which support ECE professionalism
- Articulate an understanding of typical and atypical of development of young children from birth through age eight including the health, safety and nutritional aspects of development
- Develop strategies that promote partnerships between programs, teachers, diverse families, and their communities
- Design and implement environments and curriculums which support positive development and learning through play for diverse children including the observation, assessment and planning cycle

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Associate of Science Degree, Early Childhood Education	
	Units
General Education Requirements	18.0
Program Requirements	
Core Courses	24.0
ECE 1 Principles & Practices of Teaching Young Children	3.0
ECE 2* Child Growth and Development	3.0
ECE 5 The Child in the Family and in the Community	3.0
ECE 6 Child Health, Safety and Nutrition	3.0
ECE 7 Intro to Early Childhood Curriculum	3.0
ECE 9 Observation and Assessment in ECE	3.0
ECE 10 Field Experience in Early Childhood Education	3.0
ECE 18 Teaching in a Diverse Society	3.0
Restricted Electives	3.0
<i>Choose 3 units from the following:</i>	
ECE 12 Administration I: Programs in Early Childhood Education	3.0
ECE 13 Administration II: Personnel and Leadership in Early Childhood Education	3.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>*Course may be double counted toward General Education.</i>	
NOTE: Effective Fall 2016, students enrolled in ECE Lab Courses (ECE 7 & ECE 10) will require proof of immunizations or immunity for: Measles, Pertussis, and Influenza.	

About this Degree

This program is designed to prepare the student for employment in a variety of settings with young children.

Suggested Program Sequence

Fall Start

Semester 1 ECE 1, ECE 2

Semester 2 ECE 5, ECE 7

Semester 3 ECE 6, ECE 9

Semester 4 ECE 10, ECE 12 or ECE 13, ECE 18

Plus 15 unrestricted elective units

Program Learning Outcomes

- Demonstrate knowledge of a variety of types of program for young children, the history of early care and education in the United States and the ethical standards which support ECE professionalism.
- Articulate an understanding of typical and atypical of development of young children from birth through age eight including the health, safety and nutritional aspects of development.
- Develop strategies that promote partnerships between programs, teachers, diverse families, and their communities.
- Design and implement environments and curriculums which support positive development and learning through play for diverse children including the observation, assessment and planning cycle.
- Demonstrate knowledge of the legal, financial, and administrative aspects of operating programs for young children and families.

Certificate of Achievement, Early Childhood Education	
Program Requirements	Units
ECE 1 Principles & Practices of Teaching Young Children	3.0
ECE 2 Child Growth and Development	3.0
ECE 5 The Child in the Family and in the Community	3.0
ECE 7 Intro to Early Childhood Curriculum	3.0
Total Units	12.0
NOTE: Effective Fall 2016, students enrolled in ECE Lab Courses (ECE 7 & ECE 10) will require proof of immunizations or immunity for: Measles, Pertussis, and Influenza.	

About this Degree

This program is designed to prepare the student for employment in a variety of settings with young children.

Suggested Program Sequence

Semester 1 ECE 1, ECE 2, ECE 5, ECE 7

Program Learning Outcomes

- Demonstrate knowledge of a variety of types of program for young children and the history of early care and education in the United States.
- Articulate an understanding of typical and atypical of development of young children from birth through age eight.
- Develop strategies that promote partnerships between programs, teachers, families, and their communities.
- Identify the components of environments and curriculums which support positive development and learning through play for all children.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

ENGLISH (ENGL)

About the program

The Associate in Arts in English for Transfer has been prepared to allow individuals to achieve their academic and career goals through developing strong writing and revising skills, research skills, critical reading skills, and the overall ability to generate, organize and communicate ideas. The Associate in Arts in English for Transfer provides courses to assist students so that they may succeed at college-level writing by composing effective essays, fulfill the writing requirements for a two-year degree program, prepare for success in a bachelor's program at a transfer institution, and enhance the understanding and critical acumen derived from reading complex and diverse texts. The Associate in Arts in English for Transfer degree also offers courses designed to enhance cultural literacy, information competency, critical judgment, creative imagination, and independent thought. The Associate in Arts in English for Transfer prepares students to seamlessly pursue a baccalaureate degree in English at a California State University.

Degrees/Certificates within this Program:

- Associate in Arts Degree for Transfer, English

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- Counseling & Advising, 707-476-4150

Associate in Arts in English for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	6.0			
ENGL 1B* Critical Thinking & Literature	3.0	A3	1B	ENGL 105
ENGL 4* Intro to Literature	3.0	C2	3B	ENGL 120
List A: Select two	6.0			
ENGL 17* American Literature: Beginning to Civil War	3.0	C2	3B	ENGL 130
ENGL 18* American Literature: Civil War - World War II	3.0	C2	3B	
ENGL 60* Intro to British Literature: Beginning to 18th Century	3.0	C2	3B	ENGL 160
ENGL 61* Intro to British Literature: Romanticism to the Present	3.0	C2	3B	ENGL 165
ENGL 10* World Literature: Antiquity to Early Modern Era	3.0	C2	3B	
ENGL 9* World Literature: Early Modern to 21st Century	3.0	C2	3B	ENGL 145
List B: Select one <i>Any course from List A not already used</i>	3.0			
List C: Select one <i>Any course from List A not already used or any of the following:</i>	3.0			
ENGL 32 Creative Writing: Poetry	3.0			ENGL 200
ENGL 33 Creative Writing: Prose	3.0			ENGL 200
ENGL 41 English Skills Tutoring	3.0			
BUS 52 Business Communications	3.0			BUS 115
DRAMA 24* Intro to Theater	3.0	C1	3A	THTR 111
Total Units for the Major:	18.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) Units		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	
*Course may be double counted toward General Education. **Course has been inactivated. Please see department for appropriate course substitution.				

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Critically analyze and contextualize diverse kinds of complex texts.
- Research and apply source material to generate written arguments in response to diverse kinds of complex texts.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

FORESTRY AND NATURAL RESOURCES TECHNOLOGY (FNR)

About the program

Programs in this field provide basic and advanced educational opportunities for students seeking careers related to forestry and natural resources.

Degrees/Certificates within this Program:

- Associate of Science Degree, Forestry and Natural Resources Technology, Forest Technology
- Certificate of Achievement, Forest Technology
- Certificate of Recognition, Geomatics

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, Civil Design
- Certificate of Achievement, Civil Design

Career Opportunities

Careers in this area are often field-based and include a wide variety of activities such as inventorying trees, finding and marking Endangered Species locations, measuring streamflow and water quality, designing and monitoring forest road construction, developing and using geographic information systems and global positioning systems, working with prescribed fire or suppressing wildland fires, or fuels management.

For more information

- Tim Baker, Professor, Forestry
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www.redwoods.edu/forestry/
- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Associate of Science Degree, Forestry Technology

	Units
General Education Requirements	18.0
Program Requirements	55.0
AG 17* Intro to Soil Science	3.0
BUS 10* Intro to Business	3.0
ENVSC 11* Environmental Ethics	3.0
MATH 15* Statistics	4.0
or MATH 25* Trigonometry	4.0
or MATH 30* College Algebra	4.0
AG 46** Computers in Agriculture Management	3.0
FNR 1 Intro to Forestry and Natural Resources	3.0
FNR 5 Forest Ecology and Management	3.0
FNR 10 Timber Harvesting in California	5.0
FNR 51 Dendrology	3.0
FNR 52 Intro to Surveying	4.0
FNR 54 Intro to Natural Resource Inventory Techniques	3.0
FNR 58 Intro to Photogrammetry and Remote Sensing	2.0
FNR 60 Forest Health and Protection	3.0
FNR 65 Intro to GIS	3.0
FNR 67 Intro to GPS	1.0
FNR 77 Intro to Wildland Fire	3.0
FNR 80 Intro to Watershed Management	3.0
FNR 87 Wildlife Biology and Conservation	3.0
Unrestricted Electives - as needed to complete 61 units total	
Total Units	61.0
*Course may be double counted toward General Education.	
**Course has been inactivated. Please see department for appropriate course substitution.	

Program Learning Outcomes

- Discuss the history, policy, economics, and management of natural resources including how society utilizes forests and other natural resources.
- Acquire, analyze, and interpret quantitative data about natural resources.
- Identify and describe species and environmental factors in forest ecosystems, and use ecological knowledge about natural resources to analyze predicted outcomes of management.
- Acquire, analyze and interpret geospatial information about natural resources.
- Understand and use safe practices in the field.

About this Degree

The A.S. Degree in Forestry and Natural Resources (FNR) provides classroom- and field-based learning opportunities. The program combines ecological and technical knowledge with experiential lab environments that introduce students to the wide range of skills and employment pathways possible in the profession. Students learn how to identify, measure, and analyze various aspects of the forest environment, including trees, water, wildlife, and geospatial components and can then use this knowledge in careers working in natural resources. Most of the FNR major courses articulate directly with Humboldt State University Forestry degrees, though students should consult Counseling and Advising for current articulation agreements and transfer opportunities.

Suggested Program Sequence

Fall Start

Semester 1	ENGL 1A, FNR 1, FNR 51, FNR 67, MATH 15 or MATH 25 or MATH 30
Semester 2	ENVSC 11, FNR 5, FNR 54, FNR 60*, FNR 77, FNR 80*
Semester 3	AG 17, FNR 10, FNR 52, FNR 65, FNR 65, COMM 1
Semester 4	AG 46, BUS 10, FNR 58, FNR 87

*Course offered every other year.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Certificate of Achievement, Forestry Technology

Program Requirements	Units
AG 17 Intro to Soil Science	3.0
ENGL 150 Precollegiate Reading and Writing	3.5
FNR 1 Intro to Forestry and Natural Resources	3.0
FNR 5 Forest Ecology and Management	3.0
FNR 10 Timber Harvesting in California	5.0
FNR 51 Dendrology	3.0
FNR 52 Intro to Surveying	4.0
FNR 54 Intro to Natural Resource Inventory Techniques	3.0
FNR 58 Intro to Photogrammetry and Remote Sensing	2.0
FNR 60 Forest Health and Protection	3.0
FNR 65 Intro to GIS	3.0
FNR 67 Intro to GPS	1.0
FNR 77 Intro to Wildland Fire	3.0
FNR 80 Intro to Watershed Management	3.0
FNR 87 Wildlife Biology and Conservation	3.0
MATH 120 Intermediate Algebra	4.0
Total Units	49.5

About this Certificate

Programs in this field provide basic and advanced educational opportunities for students seeking careers related forestry and natural resources.

Suggested Program Sequence

Fall Start

Semester 1 ENGL 150, FNR 1, FNR 52, FNR 67, MATH 120

Semester 2 FNR 5, FNR 54, FNR 77, FNR 87*

Summer Job/Internship

Semester 3 AG 17, FNR 52, FNR 65

Semester 4 FNR 10, FNR 58*, FNR 60, FNR 65

*Course offered every other year.

Program Learning Outcomes

- Discuss the history, policy, economics, and management of natural resources including how society utilizes forests and other natural resources.
- Acquire, analyze, and interpret quantitative data about natural resources.
- Identify and describe species and environmental factors in forest ecosystems, and use ecological knowledge about natural resources to analyze predicted outcomes of management.
- Acquire, analyze and interpret geospatial information about natural resources.
- Understand and use safe practices in the field.

Certificate of Recognition, Geomatics

Program Requirements	Units
DT 23 Engineering Design Graphics or ENGR 23 Engineering Design Graphics	3.0 3.0
FNR 52 Intro to Surveying	4.0
FNR 58 Intro to Aerial Photogrammetry & Remote Sensing	2.0
FNR 65 Intro to GIS	3.0
FNR 66 Spatial Analysis in GIS or FNR 99A Special Topics in GIS	3.0 3.0
FNR 67 Intro to GPS	1.0
Total Units	16.0

*Course offered every other year.

Suggested Program Sequence

Fall Start

Semester 1 FNR 52, FNR 65*, FNR 67

Semester 2 DT 23 or ENGR 23, FNR 58*, FNR 66 or FNR 99A

Program Learning Outcomes

- Acquire and interpret spatial data from both local and remote sources.
- Apply common analysis techniques to answer spatially oriented problems.
- Utilize technology and software to develop spatial presentations.
- Explain applications of geomatics in solving resource problems.
- Critically analyze spatial data.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

GEOLOGY (GEOL)

About the program

Geology is the study of Earth using scientific methodology and observation to understand the processes and phenomena that shape the planet over time. It is an interdisciplinary approach that uses the fundamental concepts of biology, chemistry, and physics to investigate landforms and the internal processes of Earth.

The associate in science in geology for transfer degree provides a student with the general requirements for transferring to a CSU or other four-year school to earn a degree in geology, geophysics, or similarly named earth science field. This program includes eight units of geology course work, two semesters of chemistry, and a two semesters of calculus. Although it is not required, students are also encouraged to take two semesters of physics that is typically required for 4-year degree in geology.

Degrees/Certificates within this Program:

- Associate in Science in Geology for Transfer

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- Counseling & Advising, 707-476-4150

Associate in Science in Geology for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	26.0			
GEOL 1* Physical Geology with Lab	4.0	B1, B3	5A, 5C	GEOL 101
GEOL 2* Historical Geology with Lab	4.0	B1, B3	5A, 5C	GEOL 111
CHEM 1A* General Chemistry and CHEM 1B General Chemistry	5.0 5.0	B1, B3	5A, 5C	CHEM 110 CHEM 120S
MATH 50A* Differential Calculus	4.0	B4	2A	MATH 210
MATH 50B Integral Calculus	4.0			MATH 220
Total Units for the Major:	26.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) units:		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	

* Course may be double counted toward General Education.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Apply methods of scientific inquiry to investigate the natural world.
- Collect and analyze data, and synthesize this information into clear reports.
- Apply mathematical concepts to solve real-world problems and applications.
- Apply geologic principles to describe how earth materials and landscapes change over time.
- Describe the basic elements of plate tectonic theory.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

HISTORY (HIST)

About the program

Historian Jill Lepore, in *The Story of America*, defines History as “the art of making an argument about the past by telling a story that is accountable to evidence.” To that end, the degree program allows students to analyze and assess the merits of various historical interpretations, analyze significant historical developments, the concepts of context, process, and difference; and apply secondary and/or primary source material to construct written and oral logical, historical arguments. This degree prepares students to seamlessly pursue a baccalaureate degree in History at a California State University.

Degrees/Certificates within this Program:

- Associate in Arts in History for Transfer

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- Counseling & Advising, 707-476-4150

Associate in Arts in History for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	6.0			
HIST 8* US History through Reconstruction	3.0	D6	4F	HIST 130
HIST 9* US History Reconstruction to the Present	3.0	D6	4F	HIST 140
List A: Select two	6.0			
HIST 20* World History: Prehistory to 1500CE or HIST 4* Western Civilization to the Reformation	3.0 3.0	C2, D6 D6	3B, 4F 3B	HIST 150 HIST 170
HIST 21* World History: 1500CE-Present or HIST 5* Western Civilization ca. 1600 to the Present	3.0 3.0	C2, D6 D6	3B, 4F 3B	HIST 160 HIST 180
List B: Select one course from each area	6.0			
AREA 1	3.0			
HIST 20 World History: Prehistory to 1500CE	3.0	C2, D6	3B, 4F	
HIST 21* World History: 1500CE-Present	3.0	C2, D6	3B, 4F	HIST 160
HIST 7* History of Modern Asia	3.0	D6	4F	
HIST 11* History of Women in America: Pre-Contact to 1877	3.0	D4, D6	4F	
HIST 12* History of Women in America: 1877-Present	3.0	D4, D6	4F	
NAS 21* Native American History	3.0	D6	4F	
CINE 3* The Cinemas of Latin America, Asia, and Africa	3.0	C1	3A	
SOC 5* Introduction to Race and Ethnic Relations	3.0	D0	4J	SOCI 150
FRNC 1A* Elementary French I	4.0	C2		
FRNC 1B* Elementary French II	4.0	C2	6A	
GERM 1A* Elementary German I	4.0			
GERM 1B* Elementary German II	4.0			
SNLAN 1A Elementary American Sign Language I	4.0	C2		
SNLAN 1B Elementary American Sign Language II	4.0	C2	6A	
SPAN 1A* Elementary Spanish I	4.0	C2		SPAN 100
SPAN 1B* Elementary Spanish II	4.0	C2	3B, 6A	SPAN 110
SPAN 2A* Intermediate Spanish I	4.0	C2	3B, 6A	SPAN 200
SPAN 2B* Intermediate Spanish II	4.0	C2	3B, 6A	SPAN 210
AREA 2	3.0			
HIST 4* Western Civilization to the Reformation	3.0	D6	3B	HIST 170
HIST 5* Western Civilization ca. 1600 to the Present	3.0	D6	3B	HIST 180
HIST 6 The Vietnam War Era	3.0	D6	4A	
HIST 20* World History: Prehistory to 1500CE	3.0	C2, D6	3B, 4F	HIST 150
HIST 21* World History: 1500CE-Present	3.0	C2, D6	3B, 4F	HIST 160
HIST 18 History of California	3.0	D6		
CINE 1* Cinema History: Origins to Coming of Sound	3.0	C1	3A	
CINE 2* Cinema History: Coming of Sound to Present	3.0	C1	3A	
ANTH 3* Cultural Anthropology	3.0	D1	4A	ANTH 120
ANTH 5* Great Archaeological Discoveries	3.0	D1	4A	
ART 1A* Art History: Pre-History to Gothic	3.0	C1	3A	
ART 1B* Art History: Renaissance to Contemporary	3.0	C1	3A	
MUS 10* Music in History	3.0	C1	3A	
SOC 1* Introduction to Sociology	3.0	D0	4J	SOCI 110
PSYCH 1*General Psychology	3.0	D9	4I	PSY 110
Total Units for the Major:	18.0-19.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) Units		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	

* Course may be double counted toward General Education.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Analyze and assess the merits of various historical interpretations
- Analyze significant historical developments through the applications of the concepts of context, process, and/or difference
- Apply secondary and/or primary source material to construct written and oral logical, historical arguments

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

KINESIOLOGY (KINS)

About the program

This program is designed to provide students with an introduction to the academic discipline of Kinesiology and the scientific study of human movement. The AA degree provides a foundation in the fundamentals of human anatomy, physiology, and exercise movement. A bachelor's degree in Kinesiology can lead to careers in exercise science, athletic training, research, personal trainer, and as a teacher and/or coach.

Degrees/Certificates within this Program:

- Associate in Arts in Kinesiology for Transfer

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- Counseling & Advising, 707-476-4150

Associate in Arts in Kinesiology for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	14.0			
KINS 65 Foundations of Kinesiology	3.0			KIN 100
BIOL 6 Human Anatomy	4.0			BIOL 110B
BIOL 7 Human Physiology	4.0			
Movement Based Courses <i>Select one course maximum from any three of the following areas</i>	3.0			
Combatives				
PE 14 Defensive Tactics	1.0			
PE 15 Women's Self-Defense	1.0			
Dance				
PE 36 Hip-Hop Dance	1.0			
Fitness				
PE 9 Hiking	1.0			
PE 10 Running and Walking	1.0			
PE 10 Running and Walking	1.0			
PE 12 Weight Training	1.0			
PE 32 Circuit Training	1.0			
Individual Sports				
PE 8A Beginning Golf	1.0			
PE 11 Tennis	1.0			
PE 27 Power Weight Lifting	1.0			
Team Sports				
PE 21 Basketball	1.0			
PE 22 Soccer	1.0			
PE 25 Volleyball	1.0			
List A: Select two	7.0-9.0			
MATH 15* Introduction to Statistics	4.0	B4	2A	MATH 110
CHEM 1A* General Chemistry	5.0	B1, B3	5A, 5C	CHEM 110
or CHEM 2* intro to Chemistry	5.0	B1, B3	5A, 5C	CHEM 101
PHYS 2A* General Physics	4.0	B1, B2, B3	5A, 5C	PHYS 105
or PHYS 4A* Calculus Based Physics: Mechanics	4.0	B1, B3	5A, 5C	PHYS 205
HE 7 Emergency Response: First Aid/CPR/AED	3.0			KIN 101
Total Units for the Major:	21.0-23.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) Units		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	

**Course may be double counted toward General Education.*

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Explain the anatomical structure and the physiological mechanism of the human body.
- Apply the techniques and principles of the components of fitness and demonstrate knowledge in at least three areas of physical fitness.
- Identify career and / or educational options in physical education, and formulate an action plan to successfully pursue and attain those options.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

LIBERAL ARTS (LA)

About the program

The Associate in Liberal Arts is designed for students who want a broad knowledge of the liberal arts and sciences. This degree requires the successful completion of the general education pattern and an area of emphasis that meets the student's educational goals. The general education pattern provides a broad knowledge of the liberal arts and sciences and the emphasis area requires a student to focus on a specific academic area.

Degrees/Certificates within this Program:

- Associate of Arts Degree, Liberal Arts: Agriculture
- Associate of Arts Degree, Liberal Arts: Behavioral & Social Science
- Associate of Arts Degree, Liberal Arts: Business
- Associate of Arts Degree, Liberal Arts: Fine Arts
- Associate of Arts Degree, Liberal Arts: Humanities, Language & Communication
- Associate of Arts Degree, Liberal Arts: Mathematics
- Associate of Arts Degree, Liberal Arts: Science
- Associate of Arts Degree, Liberal Arts: Science Exploration

Similar Degrees/Certificates offered at CR:

- Associate in Arts in History for Transfer
- Associate in Arts in Psychology for Transfer
- Associate in Arts in Studio Arts for Transfer
- Associate in Science in Early Childhood Education for Transfer
- Associate in Science in Mathematics for Transfer
- Associate in Arts in Political Science for Transfer
- Associate in Science in Physics for Transfer

For more information

- Counseling & Advising, 707-476-4150

Associate of Arts Degree, Liberal Arts: Agriculture

	Units
General Education Requirements	
<i>Choose one of three options. See an advisor for more information</i>	
Option A CR General Ed. Requirements	18.0
Option B CSU General Ed. Requirements	39.0
Option C IGETC (UC General Ed.) Requirements	37.0
Program Requirements	18.0
AG 3 Intro to Animal Science [A, B]	3.0
AG 7 Animal Feeding and Nutrition	3.0
AG 17 Intro to Soils [A, B]	3.0
AG 23 Intro to Plant Science [A, B]	3.0
AG 30 Intro to Agricultural Business and Economics	3.0
AG 51 Tractor Operation	3.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>[A] - Course may be double-counted toward CR GE requirements</i>	
<i>[B] - Course may be double-counted toward CSU-GE requirements</i>	
<i>[C] - Course may be double counted toward IGETC (UC GE) requirements</i>	

About this Degree

The Liberal Arts: Agriculture degree is designed to prepare students for transferring to a four-year institution by including commonly required introductory courses for majors in agricultural science, agricultural education, and agricultural business. This degree also provides a broad background in agricultural studies for students who will ultimately pursue a career in an agricultural field. Students should seek advising before selecting specific courses in order to meet specific university requirements for their university major.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Describe the importance of the agriculture industry to the local, state and national economies.
- Demonstrate proficiency using computers, the internet, and other technologies as they relate to the agriculture industry.
- Apply best management practices to agriculture production scenarios.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Associate of Arts Degree, Liberal Arts: Behavioral & Social Science	
	Units
General Education Requirements	
<i>Choose one of three options. See an advisor for more information</i>	
Option A CR General Ed. Requirements	18.0
Option B CSU General Ed. Requirements	39.0
Option C IGETC (UC General Ed.) Requirements	37.0
Program Requirements	
Core Courses (Choose 9 units from the list below)	9.0
AJ 1 Intro to Administration of Justice [A, B, C]	3.0
ANTH 3 Cultural Anthropology [A, B, C]	3.0
HIST 8 United States History through Reconstruction [A, B, C] or HIST 9 United States History Reconstruction - Present [A, B, C]	3.0
POLSC 10 American Institutions [A, B, C]	3.0
PSYCH 1 General Psychology [A, B, C]	3.0
SOC 1 Intro to Sociology [A, B, C]	3.0
Restricted Electives (Choose 9 units from the list below)	9.0
AJ 1 Intro to Administration of Justice [A, B, C]	3.0
AJ 4 Criminal Law	4.0
AJ 5 Crime and Delinquency	3.0
ANTH 1 Intro to Biological Anthropology [A, B, C] or ANTH 2 Intro to Archaeology [A, B, C] or ANTH 3 Cultural Anthropology [A, B, C] or ANTH 4 Folklore or ANTH 5 Great Archaeological Discoveries [A, B, C] or ANTH 6 Forensic Anthropology [A, B]	3.0
**JOURN 5 Intro to Mass Communications	3.0
**ECON 20 Economic History of the US	3.0
GEOG 2 Cultural Geography [A, B]	3.0
HIST 4 Western Civilization to the Reformation [A, B, C]	3.0
HIST 5 Western Civilization ca. 1600 to the Present [A, B, C]	3.0
HIST 8 United States History through Reconstruction [A, B, C]	3.0
HIST 9 United States History Reconstruction - Present [A, B, C]	3.0
HIST 20 World History: Prehistory to 1500 C.E. [A, B, C]	3.0
HIST 21 World History: 1500 A.D. - Present [A, B, C]	3.0
NAS 1 Intro to Native American Studies [A, B, C] or NAS 21 Native American History [A, B, C]	3.0
POLSC 1 Political Controversies [A, B, C]	3.0
POLSC 3 Modern World Problems [A, B, C]	3.0
POLSC 10 American Institutions [A, B, C]	3.0
POLSC 12 State and Local Politics	3.0
POLSC 20 Comparative Politics/Government [B, C]	3.0
POLSC 30 Campaigns and Elections	3.0
PSYCH 1 General Psychology [A, B, C]	3.0

PSYCH 2 Research Methods in Psychology	3.0
**PSYCH 10 Psychology of Gender	3.0
PSYCH 11 Life Span Development [A, B, C]	3.0
PSYCH 20 Biological Psychology	3.0
PSYCH 30 Social Psychology [A, B, C]	3.0
PSYCH 33 Personal Growth and Adjustment [A, B]	3.0
PSYCH 38 Abnormal Psychology	3.0
SOC 1 Intro to Sociology [A, B, C]	3.0
SOC 2 Social Problems [A, B, C]	3.0
SOC 3 Human Sexuality [A, B, C]	3.0
SOC 5 Intro to Race and Ethnic Relations [A, B, C]	3.0
SOC 9 Intro to Women's Studies [A, B, C]	3.0
SOC 10 Family and Intimate Relationships [A, B]	3.0
SOC 33 Death & Dying: Transition/Growth	3.0
SOC 34 Intro to Social Work	3.0
SOC 38 Field Experience	3.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>**Course inactivated. Please see department for appropriate course substitution</i>	
<i>[A] - Course may be double-counted toward CR GE requirements</i>	
<i>[B] - Course may be double-counted toward CSU-GE requirements</i>	
<i>[C] - Course may be double counted toward IGETC (UC GE) requirements</i>	

About this Degree

The Liberal Arts: Behavioral and Social Science degree includes an introductory core curriculum including classes in Administration of Justice, Anthropology, History, Political Science, Psychology or Sociology with elective courses in these disciplines, as well as Economics, Journalism, and Native American Studies. Students will address the methods, theories, and ethical dilemmas faced by behavioral and social science professionals through classroom-based presentations and discussions, with opportunities to apply these concepts in out-of-class assignments and activities. The degree is designed to demonstrate the connections between the behavioral and social sciences, as well as the way in which each discipline provides a unique perspective on humanity. It includes an introduction to three fields, with at least three elective courses within the student's chosen interest area(s). The emphases include courses commonly required at four-year institutions for majors in each of the fields so that transfer students will be prepared for upper division courses they might take in the future. Students not planning to continue their education will benefit from the increased personal and cultural awareness attained through these studies.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Extract and analyze information from primary and secondary sources relevant to the social and behavioral sciences.
- Critically evaluate current and historical issues in the social and behavioral sciences.
- Create arguments that demonstrate knowledge of primary and secondary source information.
- Compare and contrast the intellectual frameworks that various disciplines in the social and behavioral sciences have taken with respect to social power relations, including but not limited to race, ethnicity, class, gender, and religion.
- Explain diverse human viewpoints and experiences from an empathetic perspective.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Associate of Arts Degree, Liberal Arts: Business	
	Units
General Education Requirements <i>Choose one of three options. See an advisor for more information</i>	
Option A CR General Ed. Requirements	18.0
Option B CSU General Ed. Requirements	39.0
Option C IGETC Pattern	37.0
Program Requirements <i>Choose 18 units from the following</i>	
BUS 1A Financial Accounting	4.0
BUS 1B Managerial Accounting	4.0
BUS 10 Intro to Business [A, B]	3.0
BUS 18 Business Law	4.0
ECON 1 Macroeconomics [A, B, C]	3.0
ECON 10 Microeconomics [A, B, C]	3.0
**ECON 20 Economic History of the United States	3.0
MATH 15 Introduction to Statistics [A, B, C]	4.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>**Course inactivated. Please see department for appropriate course substitution</i>	
<i>[A] - Course may be double-counted toward CR GE requirements</i>	
<i>[B] - Course may be double-counted toward CSU-GE requirements</i>	
<i>[C] - Course may be double counted toward IGETC (UC GE) requirements</i>	

About this Degree

The Liberal Arts: Business degree emphasizes the integration of theory and practice within the fields of business. Students will demonstrate an understanding of the place of business within the global economy. Students will critically apply ethical standards to business practices and decisions.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Select and apply analytical and technological tools as they relate to personal and business decision making.
- Communicate effectively as writers, listeners, and speakers in social and business settings.
- Participate effectively in real or simulated business transactions in both the domestic and international arenas.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Associate of Arts Degree, Liberal Arts: Fine Arts	
	Units
General Education Requirements <i>Choose one of three options. See an advisor for more information</i>	
Option A CR General Ed. Requirements	18.0
Option B CSU General Ed. Requirements	39.0
Option C IGETC (UC General Ed.) Requirements	37.0
Program Requirements <i>Choose 18 units from the following</i>	
ART 1A Art History: Pre-History to Gothic [A, B, C]	3.0
ART 1B Art History: Renaissance to Contemporary [A, B, C]	3.0
ART 2 Intro to Art [A, B]	3.0
ART 3A Intro to Sculpture	3.0
ART 4 Art Appreciation [A, B, C]	3.0
ART 10 Color and Design [A]	3.0
ART 11 Three-Dimensional Design [A]	3.0
ART 17 Basic Drawing [A, B]	3.0
ART 19 Figure Drawing	3.0
ART 23 Painting	3.0
ART 31A Intro to Ceramics	3.0
ART 35 Digital Photography	3.0
ART 43A Intro to Photoshop	3.0
ART 60 Jewelry	3.0
CINE 1 Cinema History - Origins Through the Coming Sound [A, B, C]	3.0
CINE 2 Cinema History - Coming of Sound to the Present [A, B, C]	3.0
CINE 3 Cinemas of Latin America, Asia and Africa [A, B, C]	3.0
**CINE 6 Selected Film Authors or Genres	3.0
**DRAMA 2 Intro. to Oral Interpretation	3.0
DRAMA 24 Intro to Theatre [A, B, C]	3.0
DRAMA 26 Rehearsal and Performance in Production	2.0
DRAMA 30A Acting I	3.0
DRAMA 30B Acting II	3.0
MUS 1 Intro to Music [A, B, C]	3.0
MUS 2A Beginning Harmony and Musicianship	3.0
MUS 2B Intermediate Harmony and Musicianship	3.0
MUS 10 Music in History [A, B, C]	3.0
MUS 12 American Popular Music [A, B, C]	3.0
**MUS 14 World Music	3.0
**MUS 25 Beginning Class Piano I	1.0
**MUS 25L Intermediate Class Piano II	0.5-1.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>**Course inactivated. Please see department for appropriate course substitution</i>	
<i>[A] - Course may be double-counted toward CR GE requirements</i>	
<i>[B] - Course may be double-counted toward CSU-GE requirements</i>	
<i>[C] - Course may be double counted toward IGETC (UC GE) requirements</i>	

About this Degree

Students pursuing the Liberal Arts: Fine Arts degree may choose either to specialize within one of the four degree fields (Art, Cinema, Drama, or Music), or to take an interdisciplinary cross-section of introductory arts courses. The degree offers potential students the opportunity to develop basic skills in one or more of the arts; students who choose to specialize in a particular field can take courses commonly required at four-year institutions for majors, and thus can prepare themselves for upper division courses they may take in the future. Students not planning to continue their education, or planning to continue in some other field, will still benefit from the increased cultural awareness and personal fulfillment attained through this degree program.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Demonstrate progressive technical mastery of one or more artistic mediums.
- Recognize and evaluate competing aesthetic and critical claims.
- Critically analyze a range of creative works using varied analytical perspectives.
- Explain, verbally or in writing, relationships between cultural, socio-economic, and political factors and artistic movements.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Associate of Arts Degree, Liberal Arts: Humanities, Language & Communication	
	Units
General Education Requirements <i>Choose one of three options. See an advisor for more information</i>	
Option A CR General Ed. Requirements	18.0
Option B CSU General Ed. Requirements	39.0
Option C IGETC (UC General Ed.) Requirements	37.0
Program Requirements <i>(Choose 18 units from the list below)</i>	18.0
ART 1A Art History: Pre-History to Gothic [A, B, C]	3.0
ART 1B Art History: Renaissance to Contemporary [A, B, C]	3.0
COMM 1 Public Speaking [A, B, C]	3.0
COMM 5 Intro to Mass Communications [A, B, C]	3.0
COMM 6 Small Group Communication [A]	3.0
COMM 7 Interpersonal Communication [A, B]	3.0
ENGL 1B Critical Inquiry and Literature [B]	3.0
ENGL 9 World Literature: Early Modern to 21st Century [A, B, C]	3.0
ENGL 10 World Literature: Antiquity to the Early Modern Era [A, B, C]	3.0
ENGL 17 American Literature: Beginnings to the Civil War [A, B, C]	3.0
ENGL 18 American Literature: Civil War - WWII [A, B, C]	3.0
ENGL 32 Creative Writing: Poetry	3.0
ENGL 33 Creative Writing: Prose	3.0
ENGL 60 Intro to British Literature: Beginnings Through the 18th Century [A, B, C]	3.0
ENGL 61 Intro to British Literature: Romanticism to the Present [A, B, C]	3.0
FRNC 1A Elementary French I [A, B]	4.0
FRNC 1B Elementary French II [A, B, C]	4.0
**FRNC 2A Intermediate French I	4.0
**FRNC 2B Intermediate French II	4.0
GERM 1A Elementary German I [A]	4.0
GERM 1B Elementary German II [A]	4.0
**GERM 2A Intermediate German I	4.0
**GERM 2B Intermediate German II	4.0
HIST 4 Western Civilization to the Reformation [A, B, C]	3.0
HIST 5 Western Civilization ca. 1600 to the Present [A, B, C]	3.0
HIST 8 United States History through Reconstruction [A, B, C]	3.0
HIST 9 United States History Reconstruction - Present [A, B, C]	3.0
HIST 20 World History: Prehistory to 1500 A.D. [A, B, C]	3.0
HIST 21 World History: 1500 A.D. to Present [A, B, C]	3.0
**JPN 1A Elementary Japanese	4.0
**JPN 1B Elementary Japanese	4.0
PHIL 1 Critical Thinking [A, B]	3.0
PHIL 10 Intro to Philosophy [A, B, C]	3.0
PHIL 12 Logic [A, B]	3.0
PHIL 15 Religions of the World [B, C]	3.0

PHIL 20 Ethics [B]	3.0
SNLAN 1A Elementary American Sign Language I [A, B]	4.0
SNLAN 1B Elementary American Sign Language II [A, B, C]	4.0
SPAN 1A Elementary Spanish [A, B]	4.0
SPAN 1B Elementary Spanish [A, B, C]	4.0
SPAN 2A Intermediate Spanish [A, B, C]	4.0
SPAN 2B Intermediate Spanish [A, B, C]	4.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>**Course inactivated. Please see department for appropriate course substitution</i>	
<i>[A] - Course may be double-counted toward CR GE requirements</i>	
<i>[B] - Course may be double-counted toward CSU-GE requirements</i>	
<i>[C] - Course may be double counted toward IGETC (UC GE) requirements</i>	

About this Degree

Liberal Arts: Humanities & Communications degree students planning to transfer to a university should consult with counselors/advisors about lower division major requirements at their transfer institution to make the most judicious selection of courses.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Present orally or in writing the effective use of research materials in a coherent argument.
- Analyze the relationship between reader, text, and social cultural, and/or historical contexts.
- Critically analyze and interpret a broad variety of texts, including, but not limited to written texts, speeches, and various media.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Associate of Arts Degree, Liberal Arts: Mathematics	
	Units
General Education Requirements	
<i>Choose one of three options. See an advisor for more information</i>	
Option A CR General Ed. Requirements	18.0
Option B CSU General Ed. Requirements	39.0
Option C IGETC (UC General Ed.) Requirements	37.0
Program Requirements	
Core Courses	8.0
MATH 50A Differential Calculus [A, B, C]	4.0
MATH 50B Integral Calculus	4.0
Restricted Electives	10.0
<i>(Choose 10 units from the list below)</i>	
MATH 4 MATLAB Programming [A]	3.0
MATH 45 Linear Algebra	4.0
MATH 50C Multivariable Calculus	4.0
MATH 55 Differential Equations	4.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>[A] - Course may be double-counted toward CR GE requirements</i>	
<i>[B] - Course may be double-counted toward CSU-GE requirements</i>	
<i>[C] - Course may be double counted toward IGETC (UC GE) requirements</i>	

About this Degree

The Liberal Arts degree in Mathematics is designed with an emphasis in and for students who are interested in mathematics or mathematically related disciplines but do not wish to major in mathematics. This degree pathway is appropriate for students who wish to augment their studies in another field with a better understanding of mathematics. Completion of this degree prepares students to major in a field of study related to mathematics when they transfer to a university. Students who already have mathematics as a transfer goal should not choose this major but instead consider the Associate in Arts in Mathematics for Transfer degree. Students should seek advising before selecting specific courses in order to meet specific university requirements for their major.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Complete projects and assignments both independently and cooperatively.
- Communicate mathematical ideas effectively, both in oral and written presentations.
- Use numerical, graphical, symbolic, and verbal representations to solve problems and present logical arguments.
- Use computer technology to verify and interpret results, visualize functions, and explore mathematical concepts.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Associate of Arts Degree, Liberal Arts: Science	
	Units
General Education Requirements	
<i>Choose one of three options. See an advisor for more information</i>	
Option A CR General Ed. Requirements	18.0
Option B CSU General Ed. Requirements	39.0
Option C IGETC (UC General Ed.) Requirements	37.0
Program Requirements	
Required Core: (at least one class from two of the three core areas)	8.0- 9.0
Core Area 1:	
CHEM 1A General Chemistry [A, B, C]	5.0
CHEM 2 Introduction to Chemistry [A, B, C]	5.0
Core Area 2:	
MATH 15 Introduction to Statistics [A, B, C]	4.0
MATH 25 College Trigonometry [A, B]	4.0
MATH 30 College Algebra [A, B, C]	4.0
MATH 50A Differential Calculus [A, B, C]	4.0
Core Area 3:	
PHYS 2A General Physics I [A, B, C]	4.0
PHYS 4A Calculus-based Physics: Mechanics [A, B, C]	4.0
Additional Courses: (complete 9-10 units from the list below)	9.0- 10.0
AG 17 Intro to Soil Science [A, B]	3.0
BIOL 1 General Biology [A, B, C]	4.0
BIOL 3 Fundamental Cell Biology [A, B, C]	4.0
BIOL 4 General Zoology	4.0
BIOL 5 Intro to Botany [A, B, C]	4.0
BIOL 6 Human Anatomy	4.0
BIOL 7 Human Physiology	4.0
BIOL 15 Marine Biology [A, B, C]	4.0
CHEM 1A General Chemistry [A, B, C]	5.0
CHEM 1B General Chemistry	5.0
CHEM 2 Intro to Chemistry [A, B, C]	4.0
CHEM 3 Intro to Organic Chemistry	4.0
CHEM 8 Brief Organic Chemistry	5.0
FNR 1 Intro to Forestry and Natural Resources	3.0
FNR 51 Dendrology: The Identification and Study of Woody Plants	3.0
GEOL 1 Physical Geology with Lab [A, B, C]	4.0
GEOL 2 Historical Geology [A, B, C]	4.0
MATH 15 Introduction to Statistics [A, B, C]	4.0
MATH 25 College Trigonometry [A, B]	4.0
MATH 30 College Algebra [A, B, C]	4.0
MATH 50A Differential Calculus [A, B, C]	4.0

MATH 50B Integral Calculus	4.0
OCEAN 10 Intro to Oceanography [A, B, C]	3.0
OCEAN 11 Lab in Oceanography [A, B, C]	1.0
PHYS 2A General Physics I [A, B, C]	4.0
PHYS 2B General Physics II	4.0
PHYS 4A Calculus-Based Physics: Mechanics [A, B, C]	4.0
PHYS 4B Calculus-Based Physics: Electricity and Magnetism	4.0
PHYS 4C Calculus-Based Physics: Heat, Optics, Waves, and Modern Physics	4.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>[A] - Course may be double-counted toward CR GE requirements</i>	
<i>[B] - Course may be double-counted toward CSU-GE requirements</i>	
<i>[C] - Course may be double counted toward IGETC (UC GE) requirements</i>	

About this Degree

The Liberal Arts degree with an emphasis in the sciences is designed for students wishing to pursue careers in a scientific field. Completion of curricula prepares students to major in their field of study when they transfer to a university. Science transfer students should also consider one of the Associate for Transfer degrees in a specific scientific area if it matches their area of interest. In all cases, students should seek advising before selecting specific courses in order to meet specific university requirements for their university major.

Suggested Program Sequence

Most of these courses are taught every semester and many do not have prerequisites; therefore the sequence will vary with the needs of individual students. Please see an Academic Advisor to determine the appropriate course sequence for your academic goals.

Program Learning Outcomes

- Appropriately apply methods of scientific inquiry to answer questions, and explain the limitations of this approach.
- Apply concepts of physics and chemistry to quantitatively explain observable phenomena.
- Collect and analyze data, evaluate sources of error, and synthesize this information into clear and organized reports.
- Use numerical, graphical, symbolic and verbal representation to solve problems and communicate with others.
- Follow instructions to perform laboratory techniques and procedures, and report associated outcomes.
- Provide specific examples of the classification of the natural world, drawn from both life and physical sciences.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Associate of Arts Degree, Liberal Arts: Science Exploration	
	Units
General Education Requirements	
<i>Choose one of three options. See an advisor for more information</i>	
Option A CR General Ed. Requirements	18.0
Option B CSU General Ed. Requirements	39.0
Option C IGETC (UC General Ed.) Requirements	37.0
Program Requirements	
Core Courses	7.0
<i>Choose 7 units, with a minimum of 3 units from Life Science and a minimum of 3 units from Physical Science.</i>	
Restricted Electives	11.0
<i>Choose additional courses to complete 18 units total.</i>	
AG 17 Introduction to Soils [A, B]	3.0
AG 18 Soil Fertility and Fertilizers	3.0
AG 23 Intro to Plant Science [A, B]	3.0
ASTRO 10 Intro to Astronomy [A, B, C]	3.0
ASTRO 11 The Solar System and Space Exploration [A, B, C]	3.0
**ASTRO 15A Observational Astronomy	1.0
BIOL 1 General Biology [A, B, C]	4.0
BIOL 2 Microbiology	4.0
BIOL 3 Fundamental Cell Biology [A, B, C]	4.0
BIOL 4 General Zoology	4.0
BIOL 5 General Botany [A, B, C]	4.0
BIOL 8 Human Biology [A, B, C]	3.0
**BIOL 9 Plants and People	3.0
BIOL 15 Marine Biology [A, B, C]	4.0
BIOL 20 Natural History [A, B, C]	3.0
CHEM 1A General Chemistry [A, B, C]	5.0
CHEM 1B General Chemistry	5.0
CHEM 2 Intro to Chemistry [A, B, C]	5.0
CHEM 3 Intro to Organic Chemistry [A]	4.0
CHEM 8 Brief Organic Chemistry	5.0
CET 10 Survey of Electronics [A, B]	3.0
CIS 12 Programming Fundamentals	4.0
**CIS 16 Intro to Object Oriented Programming	4.0
CIS 18 Object Oriented Programming - Java	4.0
ENVSC 10 Intro to Environmental Science [A, B, C]	3.0
ENVSC 12 Earth's Changing Climate [A, B, C]	3.0
**ENVSC 15 Intro to Energy	3.0
FNR 1 Intro to Forestry and Natural Resources	3.0
FNR 5 Applied Forest Ecology	3.0
FNR 51 Dendrology: The Identification and Study of Woody Plants	3.0
FNR 52 Intro to Surveying	4.0
FNR 54 Intro to Natural Resources Inventory Techniques	3.0

FNR 58 Intro to Photogrammetry and Remote Sensing	2.0
FNR 60 Forest Health and Protection	3.0
FNR 65 Intro to GIS	3.0
GEOG 1 Intro to Physical Geography [A, B, C]	3.0
GEOL 1 Physical Geology with Lab [A, B, C]	4.0
GEOL 10 Environmental Geology [A, B, C]	3.0
GEOL 15 Earthquakes and Plate Tectonics [A, B, C]	3.0
MATH 15 Introduction to Statistics [A, B, C]	4.0
MATH 25 College Trigonometry [A, B]	4.0
MATH 30 College Algebra [A, B, C]	4.0
MATH 45 Linear Algebra	4.0
MATH 50A Differential Calculus [A, B, C]	4.0
MATH 50B Integral Calculus	4.0
MATH 50C Multivariable Calculus	4.0
MATH 55 Differential Equations	4.0
**METEO 1 Intro to Meteorology	3.0
OCEAN 10 Intro to Oceanography [A, B, C]	3.0
OCEAN 11 Lab in Oceanography [A, B, C]	1.0
OCEAN 12 Environmental Oceanography [A, B, C]	3.0
PHYS 2A General Physics I [A, B, C]	4.0
PHYS 2B General Physics II	4.0
PHYS 4A Calculus-Based Physics: Mechanics [A, B, C]	4.0
PHYS 10 Intro to Physics [A, B, C]	3.0
**PHYS 10 Intro to Physical Science	3.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>**Course inactivated. Please see department for appropriate course substitution</i>	
<i>[A] - Course may be double-counted toward CR GE requirements</i>	
<i>[B] - Course may be double-counted toward CSU-GE requirements</i>	
<i>[C] - Course may be double counted toward IGETC (UC GE) requirements</i>	

About this Degree

The Liberal Arts: Science Exploration degree offers a broad area in the sciences and is intended for students who wish to explore the various fields of study and for those who may not intend to transfer to a university as a science major. Students are encouraged to seek advice if they decide to choose a specific course of study.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Apply the scientific method of inquiry to investigations of the natural world.
- Demonstrate an ability to classify matter, energy, and organisms.
- Describe how energy is transferred.
- Explain the processes involved in cell biology and evolutionary change.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

MANUFACTURING TECHNOLOGY (MT)

About the program

Programs in this field provide general and specific educational opportunities for students seeking careers in drafting and design for manufacturing, machining operations, computer-controlled manufacturing, process control, production, and supervision.

Degrees/Certificates within this Program:

- Associate of Science Degree, CADD/CAM Design and Manufacturing
- Certificate of Achievement, CADD/CAM Design and Manufacturing
- Associate of Science Degree, Manufacturing Technology
- Certificate of Achievement, Manufacturing Technology

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, Drafting & 3D Modeling
- Certificate of Achievement, Drafting & 3D Modeling
- Certificate of Achievement, Welding Technology

Career Opportunities

Employment opportunities in this field include:

- Machinists
- Tool & Die Makers
- Mechanical Engineers, after transferring to a four-year program
- Model Makers
- Computer Numerical Control Machine Programmers
- Electromechanical Maintenance Technicians
- Drafters and Designers

For more information

- Mike Peterson, Professor, Manufacturing Technology
707-476-4350 | Mike-Peterson@redwoods.edu
www.redwoods.edu/Manufacturing-Technology/
- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Associate of Science Degree, Manufacturing Technology

	Units
General Education Requirements	18.0
Program Requirements	
Core Courses	43.0
CET 10* Survey of Electronics	3.0
IT 60A Basic Manufacturing Blueprint Reading	3.0
IT 60B Machine Parts Blueprint Reading	3.0
MT 10 Fundamentals of Manufacturing Technology	3.0
MT 11 Advanced Manufacturing - Turning	4.0
MT 12 Advanced Manufacturing - Milling	4.0
MT 13 Advanced Manufacturing Processes	4.0
MT 52 Ferrous Metallurgy	3.0
MT 54A Intro to Computer Numerical Control	4.0
MT 54B Computer Numerical Control Machining	4.0
MT 59A Mastercam 2D Programming	4.0
MT 59B Mastercam 3D Programming	4.0
Restricted Electives	3.0
<i>(Choose 3 units from the list below)</i>	
**DHET 167 Hydraulics and Pneumatics	3.0
DT 23 Engineering Design Graphics	3.0
or ENGR 23 Engineering Design Graphics	3.0
IT 25 Occupational Safety & Health Management	3.0
**IT 46 Computers in Industrial Management	3.0
MT 54L Computer Numerical Control Lab	2.0
WT 53 Basic Gas and Arc Welding	2.0
Unrestricted Electives - as needed to complete 61 units total	
Total Units	61.0
*Course may be double counted toward General Education. **Course inactivated. Please see department for appropriate substitution.	

About this Degree

Programs in this field provide general and specific educational opportunities for students seeking careers in drafting and design for manufacturing, machining operations, computer-controlled manufacturing, process control, production, and supervision.

Suggested Program Sequence

Fall Start

Semester 1 CET 10, IT 60A*, MT 10, MT 54A*

Semester 2 IT 60B*, MT 11, MT 54B*

Semester 3 MT 12, MT 52, MT 59A*

Semester 4 MT 13*, MT 59B*

Plus 3 units from Restricted Electives

*Course offered every other year.

Program Learning Outcomes

- Set-up and operate manual machine tools including milling machines, lathes, precision grinders, Electrical Discharge Machines, and support equipment including drill presses, grinders and saws.
- Set-up and operate Computer Aided Manufacturing systems and Computer Numerical Control machine tools including machining centers, turning centers, and rapid prototyping machines.
- Produce machine parts from engineering drawings within dimensional tolerances.
- Determine the best way to manufacture a given part and produce it utilizing the available tools and equipment.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Certificate of Achievement, Manufacturing Technology	
Program Requirements	Units
IT 60A Basic Manufacturing Blueprint Reading	3.0
IT 60B Machine Parts Blueprint Reading	3.0
MT 10 Fundamentals of Manufacturing Technology	3.0
MT 11 Advanced Manufacturing - Turning	4.0
MT 12 Advanced Manufacturing - Milling	4.0
MT 13 Advanced Manufacturing Processes	4.0
MT 52 Ferrous Metallurgy	3.0
MT 54A Intro to Computer Numerical Control	4.0
MT 54B Computer Numerical Control Machining	4.0
MT 59A Mastercam 2D Programming	4.0
MT 59B Mastercam 3D Programming	4.0
Total Units	40.0

About this Certificate

Programs in this field provide general and specific educational opportunities for students seeking careers in drafting and design for manufacturing, machining operations, computer-controlled manufacturing, process control, production, and supervision.

Suggested Program Sequence Fall Start

- Semester 1 IT 60A*, MT 10, MT 54A*
 - Semester 2 IT 60B*, MT 11, MT 54B*
 - Semester 3 MT 12, MT 52, MT 59A*
 - Semester 4 MT 13,* MT 59B*
- *Course offered every other year.*

Program Learning Outcomes

- Set-up and operate manual machine tools including milling machines, lathes, precision grinders, Electrical Discharge Machines, and support equipment including drill presses, grinders and saws.
- Set-up and operate Computer Aided Manufacturing systems and Computer Numerical Control machine tools including machining centers, turning centers, and rapid prototyping machines.
- Produce machine parts from engineering drawings within dimensional tolerances.
- Determine the best way to manufacture a given part and produce it utilizing the available tools and equipment.

Associate of Science Degree, CADD/CAM Design & Manufacturing	
	Units
General Education Requirements	18.0
Program Requirements	
Core Courses	42.0
PHYS 10* Intro to Physics	3.0
DT 23 Engineering Design Graphics or ENGR 23 Engineering Design Graphics	3.0
DT 25 Computer-Aided Design & Drafting	4.0
DT 50 3D CAD Application	4.0
DT 60 Mechanical Design Drafting	4.0
IT 60A Basic Manufacturing Blueprint Reading	3.0
IT 60B Machine Parts Blueprint Reading	3.0
MT 10 Fundamentals of Manufacturing Technology	3.0
MT 11 Advanced Manufacturing - Turning	4.0
MT 52 Ferrous Metallurgy	3.0
MT 54A Intro to Computer Numerical Control	4.0
MT 59A Mastercam 2D Programming	4.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>*Course may be double counted toward General Education.</i>	

About this Degree

Programs in this field provide general and specific educational opportunities for students seeking careers in drafting and design for manufacturing, machining operations, computer-controlled manufacturing, process control, production, and supervision.

Suggested Program Sequence Fall Start

- Semester 1 DT 23 or ENGR 23, IT 60A**, MT 10, MT 54A**
 - Semester 2 DT 25, DT 60, IT 60B**, MT 11
 - Semester 3 DT 50, MT 52, MT 59A**
 - Semester 4 PHYS 10
- **Course offered every other year.*

Program Learning Outcomes

- Produce industry standard design documentation using Computer Aided Drafting and technical sketching.
- Develop design concepts, renderings, and models with consideration for aesthetics, cost, methods of construction and/or manufacturing, and common industrial practices.
- Use common business communication tools such as the internet, MS Office, written reports, and oral presentations.
- Analyze/interpret/present technological concepts, creative expression, resources, & data.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Certificate of Achievement, CADD/CAM Design & Manufacturing

Program Requirements	Units
DT 23 Engineering Design Graphics or ENGR 23 Engineering Design Graphics	3.0 3.0
DT 25 Computer-Aided Design & Drafting	4.0
DT 50 3D CAD Application	4.0
DT 60 Mechanical Design Drafting	4.0
IT 60A Basic Manufacturing Blueprint Reading	3.0
IT 60B Machine Parts Blueprint Reading	3.0
MT 10 Fundamentals of Manufacturing Technology	3.0
MT 11 Advanced Manufacturing - Turning	4.0
MT 52 Ferrous Metallurgy	3.0
MT 54A Intro to Computer Numerical Control	4.0
MT 59A Mastercam 2D Programming	4.0
Total Units	39.0

About this Certificate

Programs in this field provide general and specific educational opportunities for students seeking careers in drafting and design for manufacturing, machining operations, computer-controlled manufacturing, process control, production, and supervision.

Suggested Program Sequence

Fall or Spring Start

Semester 1 DT 23 or ENGR 23, IT 60A*, MT 10, MT 54A*

Semester 2 DT 25, DT 60, IT 60B*, MT 11

Semester 3 DT 50, MT 52, MT 59A*

Semester 4 PHYS 10

*Course offered every other year.

Program Learning Outcomes

- Produce industry standard design documentation using Computer Aided Drafting and technical sketching.
- Develop design concepts, renderings, and models with consideration for aesthetics, cost, methods of construction and/or manufacturing, and common industrial practices.
- Use common business communication tools such as the internet, MS Office, written reports, and oral presentations.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

MATHEMATICS (MATH)

About the program

An Associate in Science in Mathematics Degree for Transfer puts you on the path toward a career in science, technology and engineering (STEM). Mathematics is used to develop techniques to model real-world applications, design efficient methods to solve problems, and create theories for problems we have yet to solve. An AS-T in Mathematics prepares students for entry to upper division CSU coursework in Mathematics. Math majors find careers in teaching, finance, computing, biotechnology and actuarial science - and many other areas dependent on the ability to think logically.

Degrees/Certificates within this Program:

- Associate in Science in Mathematics for Transfer

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- Counseling & Advising, 707-476-4150

Associate in Science in Mathematics for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	12.0			
MATH 50A* Differential Calculus	4.0	B4	2A	MATH 210
MATH 50B Integral Calculus	4.0			MATH 220
MATH 50C Multivariable Calculus	4.0			MATH 230
Choose two courses from List A or one from List A and one from List B	7.0-8.0			
List A: (complete 3-6 units from the list below)				
MATH 45 Linear Algebra	4.0			MATH 250
MATH 55 Differential Equations	4.0			MATH 240
List B: (complete 1-4 units from the list below)				
MATH 4 MATLAB Programming	3.0			
MATH 15* Elementary Statistics	4.0	B4	2A	MATH 110
PHYS 4A* Calculus-Based Physics: Mechanics	4.0	B1, B3	5A, 5C	PHYS 205
Total Units for the Major:	19.0-20.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) units:		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	

* Course may be double counted toward General Education.

Program Learning Outcomes

- Be able to read, write, and speak accurately about mathematical ideas and use correct mathematical notation
- Possess technical competence including uses of calculus, linear systems, and/or differential equations
- Be able to use technology to visualize functions, explore mathematical concepts, and solve problems
- Be able to use numerical, graphical, symbolic, and verbal representations to communicate with others in both written and oral form
- Possess a fundamental understanding of mathematics theory including applications of calculus and linear systems, relations of algebraic systems and classical problems, and roles of definitions, theorems, and proofs in algebra and analysis

About this Degree for Transfer

The Associate in Science in Mathematics for Transfer degree is designed to prepare students for transfer to the California State University system through developing the ability to read, write and speak about mathematical ideas with fluency and by building a fundamental understanding of mathematics theory including applications of calculus and linear systems, relations of algebraic systems and classical problems, and roles of definitions, theorems, and proofs in algebra and analysis.

Upon successful completion of this degree, students will possess strong technical competence including uses of calculus, linear systems, and/or differential equations. Emphasis is placed on building competency with the use of technology to visualize functions, explore mathematical concepts, and solve problems. The overarching focus of this degree pathway is to foster an ability to communicate mathematics through numerical, graphical, symbolic, and verbal representations of mathematical ideas.

Students transferring to a CSU campus that does accept the Associate in Arts in Mathematics for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree. To meet the requirements for this degree the students must:

1. Complete a minimum of 60 CSU-transferable semester units.
2. Have a 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. Complete a minimum of 18 semester units in the major coursework. All courses in the major must be completed with a grade of C or better or a "P" if the course is taken on a "pass-no pass" basis (title 5 § 55063).
4. Complete a minimum of 39 units in the California State University General Education-Breadth pattern (CSU GE Breadth); OR 39-41 units in the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

NURSING (NURS)

About the programs

Licensed Vocational Nursing (LVN)

Programs in this field provide education opportunities for students seeking careers as Licensed Vocational Nurses (LVN). Upon completion of the appropriate program, students are eligible to take the National Council Licensing Exam for Practical Nursing (NCLEX-PN).

Registered Nursing (RN)

Programs in this field provide educational opportunities for students seeking careers as Registered Nurses (RN). Upon program completion, students are eligible to take the National Council Licensing Exam for Registered Nursing (NCLEX-RN).

Paramedic (PMED)

Programs in this field provide educational opportunities for students seeking careers as Paramedics.

Degrees/Certificates within this Program:

- Associate of Science Degree, Licensed Vocational Nursing
- Certificate of Achievement, Licensed Vocational Nursing
- Associate of Science Degree, Registered Nursing
- Associate of Science Degree, Paramedic/LVN to RN
- Certificate of Achievement, LVN to RN
- Associate of Science Degree, North Coast Paramedic
- Certificate of Achievement, North Coast Paramedic

Note: High school completion is required for entry into the LVN & RN program. For program progression and completion, a grade of "C" or better is required in all courses except for HO 170C - P/NP.

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, Dental Assisting
- Certificate of Achievement, Dental Assisting

Career Opportunities

Employment opportunities in this field include:

- Licensed Vocational Nurse
- Registered Nurse
- Paramedic

For more information

For information on program admission, procedures and prerequisites, obtain the Health Occupations Program Information booklet through the Health Occupations Office or the department webpage at: www.redwoods.edu/hoc/

- Contact Health Occupations Division:
707 476-4214 | healthocc@redwoods.edu
- Counseling & Advising, 707-476-4150

Associate of Science Degree, Licensed Vocational Nursing**

	Units
General Education Requirements	18.0
Program Requirements	46.0
BIOL 8* Human Biology	4.0
HO 15 Nutrition	3.0
LVN 110A Pharmacology - Vocational Nursing I	2.0
LVN 110B Pharmacology - Vocational Nursing II	2.0
LVN 111 LVN Fundamental Pharmacology Skills	0.5
LVN 118 Psychology for Vocational Nursing	2.0
LVN 121 Nursing of Adults and Children I	6.5
LVN 122 Nursing of Adults and Children II	13.0
LVN 123 Nursing of Adults and Children III	13.0
Unrestricted Electives - as needed to complete 61 units total	
Total Units	61.0
*Course may be double counted toward General Education. **Program Admission Requirement - California CNA Certification or HO 110 (Basic Patient Care) Program Admission Note: BIOL-8 is taken in the first semester of the LVN program. ENGL-150 is a prerequisite to BIOL-8. Therefore, the ENGL-150 requirement must be completed prior to the first semester of the LVN program. Students who do not meet the ENGL-150 requirement for BIOL-8 will not be allowed to register for LVN-121.	

About this Degree

The Licensed Vocational Nursing A.S. Degree prepares students seeking a career as a Licensed Vocational Nurse (LVN). Upon completion of this degree, students will be eligible to take the National Council Licensing Exam for Practical Nursing (NCLEX-PN).

Suggested Program Sequence Fall Start

Semester 1 BIOL 8, HO 15, LVN 110A, LVN 111, LVN 121

Semester 2 LVN 110B, LVN 118, LVN 122

Semester 3 LVN 123

Program Learning Outcomes

- Incorporate principles from nursing, behavioral and physical sciences in the promotion of competent care to clients of different ages with different biopsychosocial needs.
- Apply knowledge of specific disease conditions in the prevention, treatment, nursing care and rehabilitation of all clients.
- Differentiate the role of the Licensed Vocational Nurse in the health care team.
- Conform to professional standards incorporating legal and ethical responsibilities of the LVN.
- Utilize critical thinking in assessment, planning, intervention and evaluation of client care and in the development and implementation of a teaching plan within the scope of LVN practice.
- Organize, prioritize, and delegate care for a group of clients communicating effectively with members of the health care team.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Certificate of Achievement, Licensed Vocational Nursing*	
Program Requirements	Units
BIOL 8 Human Biology	4.0
HO 15 Nutrition	3.0
LVN 110A Pharmacology - Vocational Nursing I	2.0
LVN 110B Pharmacology - Vocational Nursing II	2.0
LVN 111 LVN Fundamental Pharmacology Skills	0.5
LVN 118 Psychology for Vocational Nursing	2.0
LVN 121 Nursing of Adults and Children I	6.5
LVN 122 Nursing of Adults and Children II	13.0
LVN 123 Nursing of Adults and Children III	13.0
Total Units	46.0
*Program Admission Requirement - California CNA Certification or HO 110 (Basic Patient Care)	

About this Certificate

The Licensed Vocational Nursing Certificate of Achievement prepares students seeking a career as a Licensed Vocational Nurse (LVN). Upon completion of this degree, students will be eligible to take the National Council Licensing Exam for Practical Nursing (NCLEX-PN).

Suggested Program Sequence

Fall Start

Semester 1 BIOL 8, HO 15, LVN 110A, LVN 111, LVN 121

Semester 2 LVN 110B, LVN 118, LVN 122

Semester 3 LVN 123

Program Learning Outcomes

- Incorporate principles from nursing, behavioral and physical sciences in the promotion of competent care to clients of different ages with different biopsychosocial needs.
- Apply knowledge of specific disease conditions in the prevention, treatment, nursing care and rehabilitation of all clients.
- Differentiate the role of the Licensed Vocational Nurse in the health care team.
- Conform to professional standards incorporating legal and ethical responsibilities of the LVN.
- Utilize critical thinking in assessment, planning, intervention and evaluation of client care and in the development and implementation of a teaching plan within the scope of LVN practice.
- Organize, prioritize, and delegate care for a group of clients communicating effectively with members of the health care team.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Associate of Science Degree, Registered Nursing	
	Units
Program Prerequisites	16.0
ENGL 1A* Analytical Reading and Writing	4.0
BIOL 2 Microbiology	4.0
BIOL 6 Human Anatomy	4.0
BIOL 7 Human Physiology	4.0
General Education Requirements	18.0
Program Requirements	
Core Courses	41.0
NURS 10A Pharmacology in Professional Nursing I	2.0
NURS 10B Pharmacology in Professional Nursing II	2.0
NURS 21 Nursing Science and Practice I	9.0
NURS 22 Nursing Science and Practice II	9.0
NURS 23 Nursing Science and Practice III	9.0
NURS 24 Nursing Science and Practice IV	10.0
Additional Courses	19.0
BIOL 1* General Biology	3.0
PSYCH 1* General Psychology or PSYCH 11* Life Span Development	3.0 3.0
COMM 1* Public Speaking or COMM 6* Small Group Communication or COMM 7* Interpersonal Communication	3.0 3.0 3.0
MATH 120* Intermediate Algebra or MATH 194* Intermediate Algebra for Social Sciences & Business	4.0 4.0
HO 15 Nutrition	3.0
ANTH 3* Cultural Anthropology or SOC 1* Intro to Sociology or SOC 2* Social Problems	3.0 3.0 3.0
Total Units	78.0
*Course may be double counted toward General Education. NOTE: Upon program completion, students are eligible to take the National Council Licensing Exam for Registered Nursing (NCLEX-RN).	

About this Degree

The Registered Nursing A.S. Degree prepares students seeking a career as a Registered Nurse (RN). Upon completions, students are eligible to take the National Council Licensing exam of Registered Nursing (NCLEX-RN).

Suggested Program Sequence

Program Prerequisites: BIOL 2, BIOL 6, BIOL 7 and ENGL 1A. It is recommended that students take MATH 120 OR MATH 194 (Area D3) before beginning Nursing courses.

Fall Start

Semester 1	NURS 10A, NURS 21, PSYCH 1 or PSYCH 11
Semester 2	NURS 10B, NURS 22, HO 15
Semester 3	NURS 23, COMM 1 or COMM 6 or COMM 7, SOC 1 or SOC 2 or ANTH 3
Semester 4	NURS 24, Humanities GE, MATH 120 or MATH 194 or higher level Math

Program Learning Outcomes

- Human Flourishing: Advocate for patients and families in ways that promote self-determination, integrity and on-going growth as human beings.
- Clinical Reasoning and Judgment: Use clinical reasoning and judgments in nursing practice, substantiated with evidence that integrates nursing science in the provision of safe, quality care and that promotes the health of patients within a family and community context.
- Spirit of Inquiry: Examine the evidence that underlies clinical nursing practice to challenge the status quo, question underlying assumptions, and offer new insights to improve quality of care for patients, families and communities.
- Professional Identity: Implement one's role as a nurse in ways that reflect integrity, responsibility, ethical practices and an evolving identity as a nurse committed to evidence-based practice, caring, advocacy and safe, quality care for diverse patients within a family and community context.
- Apply knowledge from general education coursework in biologic sciences, social sciences, communication and mathematics when understanding and providing safe quality care to patients and their families.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Associate of Science Degree, LVN/Paramedic to RN - Career Mobility**	
	Units
Program Prerequisites	19.0
ENGL 1A* Analytical Reading and Writing (Area D1)	4.0
BIOL 2 Microbiology	4.0
BIOL 6 Human Anatomy	4.0
BIOL 7 Human Physiology	4.0
HO 15 Nutrition	3.0
General Education Requirements	18.0
Program Requirements	
Core Courses	22.0
NURS 60A LVN/Paramedic-RN Transition Concepts Part I	1.0
NURS 60B LVN/Paramedic-RN Transition Concepts Part II	1.0
NURS 60L LVN/Paramedic-RN Transition Clinical Lab	1.0
NURS 23 Nursing Science and Practice III	9.0
NURS 24 Nursing Science and Practice IV	10.0
Additional Courses	17.0
MATH 120* Intermediate Algebra	4.0
or Higher Level Math Course	4.0
ANTH 3* Cultural Anthropology	3.0
or SOC 1* Intro to Sociology	3.0
or SOC 2* Social Problems	3.0
COMM 1* Public Speaking	3.0
or COMM 6* Small Group Communication	3.0
or COMM 7* Interpersonal Communication	3.0
PSYCH 1* General Psychology	3.0
or PSYCH 11* Life Span Development	3.0
Total Units	60.0
*Course may be double counted toward General Education.	
**Program Admission Requirement - California Recognition of Licensure as a Vocational Nurse or National Registry Certification - Paramedic	

About this Degree

The LVN/Paramedic to RN - Career Mobility A.S. Degree prepares students who are currently licensed as Licensed Vocational Nurses (LVNs) or Paramedics for careers as Registered Nurses (RNs). Upon completion, students are eligible to take the National Council Licensing Exam of Registered Nursing (NCLEX-RN).

Suggested Program Sequence

Prerequisites: ENGL 1A, BIOL 2, BIOL 6 or BIOL 8 (with LVN), BIOL 7, HO 15

Spring Start

Semester 1	NURS 60A, NURS 60B, 60L
Semester 2	NURS 23, COMM 1 or COMM 6 or COMM 7, PSYCH 1 or PSYCH 11
Semester 3	NURS 24, SOC 1 or SOC 2 or ANTH 3, MATH 120 or Higher Level Math Course, Humanities GE

Program Learning Outcomes

- Human Flourishing: Advocate for patients and families in ways that promote self-determination, integrity and on-going growth as human beings.
- Clinical Reasoning and Judgment: Use clinical reasoning and judgments in nursing practice, substantiated with evidence that integrates nursing science in the provision of safe, quality care and that promotes the health of patients within a family and community.
- Spirit of Inquiry: Examine the evidence that underlies clinical nursing practice to challenge the status quo, question underlying assumptions, and offer new insights to improve quality of care for patients, families and communities.
- Professional Identity: Implement one's role as a nurse in ways that reflect integrity, responsibility, ethical practices and an evolving identity as a nurse committed to evidence-based practice, caring, advocacy and safe, quality care for diverse patients
- Apply knowledge from general education coursework in biologic sciences, social sciences, communication and mathematics when understanding and providing safe quality care to patients and their families.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Certificate of Achievement, LVN to RN - 30-Unit Option*	
	Units
Program Prerequisites	8.0
BIOL 2 Microbiology	4.0
BIOL 7 Human Physiology	4.0
Program Requirements	22.0
NURS 23 Nursing Science and Practice III	9.0
NURS 24 Nursing Science and Practice IV	10.0
NURS 60A LVN/Paramedic - RN Transition Concepts I	1.0
NURS 60B LVN/Paramedic - RN Transition Concepts II	1.0
NURS 60L LVN/Paramedic - RN Transition Concepts Clinical	1.0
Total Units	30.0
<i>*Program Admission Requirement - California Vocational Nursing License</i>	

About this Degree

The LVN to RN - 30 Unit Option Certificate of Achievement prepares students who are currently licensed as Licensed Vocational Nurses (LVNs) for careers as Registered Nurses (RNs). Upon completion, students are eligible to take the National Council Licensing Exam of Registered Nursing (NCLEX-RN).

Suggested Program Sequence

Prerequisites: BIOL 2, BIOL 7

Spring Start

Semester 1	NURS 60A, NURS 60B
Semester 2 (summer)	NURS 60L
Semester 3	NURS 23
Semester 4	NURS 24

Program Learning Outcomes

- Human Flourishing: Advocate for patients and families in ways that promote self-determination, integrity and on-going growth as human beings.
- Clinical Reasoning and Judgment: Use clinical reasoning and judgments in nursing practice, substantiated with evidence that integrates nursing science in the provision of safe, quality care and that promotes the health of patients within a family and community context.
- Spirit of Inquiry: Examine the evidence that underlies clinical nursing practice to challenge the status quo, question underlying assumptions, and offer new insights to improve quality of care for patients, families and communities.
- Professional Identity: Implement one's role as a nurse in ways that reflect integrity, responsibility, ethical practices and an evolving identity as a nurse committed to evidence-based practice, caring, advocacy and safe, quality care for diverse patients within a family and community context.
- Apply knowledge from general education coursework in biologic sciences, social sciences, communication and mathematics when understanding and providing safe quality care to patients and their families.

Associate of Science Degree, North Coast Paramedic	
	Units
Program Prerequisite	0.0-6.0
HO 159 Emergency Medical Technician I or National Certification	6.0
General Education Requirements	18.0
Program Requirements	39.0
HO 170A North Coast Paramedic 1	11.0
HO 170B North Coast Paramedic 2	13.0
HO 170C** North Coast Paramedic 3	1.0-8.0
HO 170D** North Coast Paramedic 3	1.0-8.0
BIOL 1* General Biology	4.0
PSYCH 1* General Psychology	3.0
or PSYCH 33* Personal Growth and Adjustment	3.0
or SOC 1* Intro to Sociology	3.0
or SOC 2* Social Problems	3.0
Unrestricted Electives - as needed to complete 60 units total	
Total Units	60.0
<i>*Course may be double counted toward General Education.</i>	
<i>**A total of 9.0 units must be completed between HO 170C and HO 170D.</i>	

About this Degree

The North Coast Paramedic A.S. Degree prepares students for careers as Paramedics.

Suggested Program Sequence

Fall Start

Semester 1	HO 170A
Semester 2	HO 170B
Semester 3	HO 170C
Semester 4	HO 170D

Program Learning Outcomes

- Identify the roles and responsibilities of a paramedic and how these support the roles and responsibilities of other healthcare professionals.
- Apply the basic concepts of development, pathophysiology and pharmacology to the assessment and management of emergency patients and communicate the findings to others.
- Integrate pathophysiological principles and assessment findings to formulate a field impression, and implement a treatment plan for emergency patients.
- Apply concepts of social interaction and communications with teams and individuals.
- Manage the scene of an emergency safely and efficiently.
- Achieve national certification as a paramedic.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Certificate of Achievement, North Coast Paramedic	
	Units
Program Prerequisite	0.0-6.0
HO 159 Emergency Medical Technician I or National Certification	6.0
Program Requirements	33.0
HO 170A North Coast Paramedic 1	11.0
HO 170B North Coast Paramedic 2	13.0
HO 170C** North Coast Paramedic 3	1.0-8.0
HO 170D** North Coast Paramedic 4	1.0-8.0
Total Units	39.0
**A total of 9.0 units must be completed between HO 170C and HO 170D.	

About this Certificate

The North Coast Paramedic Certificate of Achievement prepares students for careers as Paramedics.

Suggested Program Sequence

Program Prerequisite: HO 159 or EMT I Certification

Semester 1 HO 170A

Semester 2 HO 170B

Semester 3 HO 170C

Semester 4 HO 170D

Program Learning Outcomes

- Identify the roles and responsibilities of a paramedic within an EMS system.
- Apply the basic concepts of development, pathophysiology and pharmacology to the assessment and management of emergency patients and communicate the findings to others.
- Integrate pathophysiological principles and assessment findings to formulate a field impression, and implement a treatment plan for emergency patients.
- Manage the scene of an emergency safely and efficiently.
- Achieve national certification as a paramedic.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

PHILOSOPHY (PHIL)

About the program

The discipline of philosophy focuses upon critical and comprehensive thought and seeks to bring clarity to confusion, identify assumptions, assess importance and test positions by evaluating evidence for conclusions. A degree in Philosophy lends itself to education and publishing, provides valuable skills that employers often seek, as well as serves as an excellent pre-Law degree.

Degrees/Certificates within this Program:

- Associate in Arts in Philosophy for Transfer

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

Counseling & Advising, 707-476-4150

Associate in Arts in Philosophy for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core <i>Choose two courses from the following:</i>	6.0			
PHIL 10 Introduction to Philosophy	3.0	C2	3B	PHIL 100
PHIL 12 Introduction to Logic	3.0	A3		PHIL 210
PHIL 20 Introduction to Ethics	3.0	C2		PHIL 120
List A: <i>Complete 3 units, from any Required Core course not already used, or from the following:</i>	3.0			
PHIL 13 History of Ancient Philosophy	3.0			PHIL 130
PHIL 14 History of Early Modern Philosophy	3.0			PHIL 140
List B: <i>Complete 6 units, from any List A course not already used, or from the following:</i>	6.0			
HIST 4 Western Civilization to the Reformation	3.0	C2, D6	3B	HIST 170
HIST 5 Western Civilization ca. 1600 to the Present	3.0	C2, D6	3B	HIST 180
PHIL 2 Introduction to Political Philosophy	3.0	C2	3B	
PHIL 16 Introduction to the Philosophy of Religion	3.0			
List C: <i>Complete 3 units, from any List A or B course not already used, or from the following:</i>	3.0			
PHIL 1 Critical Thinking	3.0	A3		
PHIL 15 World Religions	3.0	C2	3B	
Total Units for the Major:	18.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) units:		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	

** Course may be double counted toward General Education.*

About this Degree for Transfer

The Associate in Arts in Philosophy for Transfer is intended for students who plan to complete a bachelor's degree in Philosophy at a CSU campus. Students completing the Associate in Arts in Philosophy for Transfer degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the Associate in Arts in Philosophy for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree. To meet the requirements for this degree the students must:

1. Complete a minimum of 18 semester units in the major coursework.
 2. Complete the California State University General Education-Breadth pattern (CSU GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
 3. Have a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
- Students completing this degree are guaranteed

admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept the Associate in Arts in Philosophy for Transfer will be required to complete no more than 60 units after transfer to earn a bachelor's degree. Students should consult with a counselor for more information on university admission and transfer requirements.

To meet the requirements for this degree the students must:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtain a minimum grade point average of 2.0. ADTs also require that students must earn a C or

better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Critically evaluate both the formal and informal logic of arguments, including the arguments of prominent philosophers from the history of philosophy.
- Explain a variety of philosophical perspectives and positions and their relationships to their cultural, historical, and thematic contexts.
- Articulate clearly in oral and written form analyses of major philosophical works.
- Use critical thinking skills to address conceptual problems and issues.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

PHYSICS (PHYS)

About the program

Physics is the study of the fundamental processes of nature, including motion, light, heat, and matter. Physics employs theoretical models involving force, momentum, energy, fields, waves, and particles to describe nature and through mathematics formulate precisely testable, quantitative predictions. Physics is an experimental science where all theories are subject to independently repeated, quantitative verification based on data from carefully designed experiments.

The associate in science in physics for transfer degree provides a student with the general introductory requirements for transferring to a CSU or other four-year school to earn a degree in physics, applied physics, or astronomy. As well, this degree is a good fit for students intending to pursue engineering. This program includes twelve units of physics course work and three semesters of calculus. For students intending to pursue astronomy it is highly recommended to select a course in astronomy as the elective for this degree.

Degrees/Certificates within this Program:

- Associate in Arts Degree for Transfer, Physics

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- Counseling & Advising, 707-476-4150

Associate in Science in Physics for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	24.0			
PHYS 4A* Calculus Based Physics: Mechanics	4.0	B1, B3	5A, 5C	PHYS 205
PHYS 4B Calculus Based Physics: Electricity and Magnetism	4.0			PHYS 210
PHYS 4C Calculus Based Physics: Heat, Optics, Waves, and Modern Physics	4.0			PHYS 215
MATH 50A* Differential Calculus	4.0	B4	2A	MATH 210
MATH 50B Integral Calculus	4.0			MATH 220
MATH 50C Multivariable Calculus	4.0			MATH 230
Total Units for the Major:	24.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) units:		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	

* Course may be double counted toward General Education.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Apply methods of scientific inquiry to investigate questions, and explain the limitations of this approach.
- Perform experiments, collect and analyze data, evaluate sources of uncertainty, and determine if an experiment correctly verifies theory within expected errors.
- Use concepts from physics theories to analyze and describe natural phenomena.
- Use physical laws, theories, and appropriate mathematics to make quantitative predictions.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

POLITICAL SCIENCE (POLSC)

About the program

Political Science is the systematic study of politics and power, the analysis of political systems, and the evaluation of political behavior. To that end, the following degree program allows students to analyze political issues and phenomena using political science concepts, theories, and methods; and identify and critically evaluate the quality, bias, and arguments of scholarly research in the discipline. This degree prepares students to pursue seamlessly a baccalaureate degree in Political Science.

Degrees/Certificates within this Program:

- Associate in Arts Degree for Transfer, Political Science

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- Counseling & Advising, 707-476-4150

Associate in Science in Political Science for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	3.0			
POLSC 10* US Government & Politics	3.0	D8	4H	POLS 110
List A: Select three	9.0-10.0			
POLSC 2* Intro to Political Philosophy	3.0	C2	3B	POLS 120
POLSC 20* Comparative Politics	3.0	D8	4H	POLS 130
POLSC 3* Modern World Problems	3.0	D8	4H	POLS 140
MATH 15* Introduction to Statistics	4.0	B4	2A	MATH 110
List B: Select two <i>Any course from List A not already used and/or any of the following:</i>	6.0			
POLSC 12 State & Local Politics	3.0	D8		
POLSC 13 Environmental Politics & Policy	3.0			
POLSC 1* Political Controversies	3.0	D8	4H	
POLSC 30 Campaigns & Elections	3.0			
Total Units for the Major:	18.0-19.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) Units		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	

* Course may be double counted toward General Education.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Analyze political issues and phenomena using political science concepts, theories, and methods;
- Identify and critically evaluate the quality, bias, and arguments of scholarly research in the discipline.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

PSYCHOLOGY (PSYCH)

About the program

Psychology is defined as the scientific study of behavior and mental processes. The following degree program allows students to utilize research methods; analyzing the credibility of research, theories, and applications; understand the core concepts of psychology; apply psychological concepts, theoretical perspectives, empirical findings, and historical trends to questions and issues on a societal and personal level; and understand the ethical standards in academic and applied psychology. This degree prepares students to pursue a baccalaureate degree in psychology.

Degrees/Certificates within this Program:

- Associate in Arts Degree for Transfer, Psychology

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithguarantee.com and www.redwoods.edu/transfer

For more information

- Counseling & Advising, 707-476-4150

Associate in Arts in Psychology for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core	10.0			
MATH 15* Introduction to Statistics	4.0	B4	2A	MATH 110
PSYCH 1* General Psychology	3.0	D9	4I	PSY 110
PSYCH 2 Research Methods in Psychology	3.0			PSY 200
List A: Select one	3.0-4.0			
BIOL 1* General Biology	4.0	B2, B3	5B, 5C	
PSYCH 20 Biological Psychology	3.0			PSY 150
List B: Select one <i>Any course from List A not already used or any of the following:</i>	3.0			
PSYCH 11* Life Span Development	3.0	E	4I	PSY 180
PSYCH 30* Social Psychology	3.0	D9	4I	PSY 170
List C: Select one <i>Any course from List A or B not already used or any of the following:</i>	3.0-4.0			
PSYCH 10 Psychology of Gender				
PSYCH 33* Personal Growth and Adjustment	3.0	E		PSY 115
PSYCH 38 Abnormal Psychology	3.0			PSY 120
Total Units for the Major:	19.0-21.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) units:		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	

* Course may be double counted toward General Education.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Utilize research methods
- Analyze the credibility of research, theories, and applications
- Understand the core concepts of psychology
- Apply psychological concepts, theoretical perspectives, empirical findings, and historical trends to questions and issues on a societal and personal level
- Understand the ethical standards in academic and applied psychology

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

RESTAURANT & HOSPITALITY MANAGEMENT (RHM)

About the program

Programs in this field provide skills and competencies for positions in the hospitality industry. This unique program mirrors industry standards by providing training in a realistic work training environment.

Degrees/Certificates within this Program:

- Associate of Science Degree, Restaurant & Hospitality Management
- Certificate of Achievement, Restaurant & Hospitality Management

Career Opportunities

Employment opportunities in this field include:

- Chef
- Assistant Pastry Chef
- Line Cook
- Restaurant Manager
- Food Service Worker
- Food Processing Worker
- Caterer
- Food Service Manager
- Dietician
- Server
- Baker
- Front Desk Clerk
- Pastry Chef
- Reservations Clerk
- Host/Hostess

For more information

- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Associate of Science Degree, Restaurant & Hospitality Management

	Units
General Education Requirements	18.0
Program Requirements	
Core Courses	31.0-33.0
RHM 1 Intro to the Hospitality Industry	3.0
RHM 3 Bar and Beverage Management	3.0
RHM 6 Hospitality and Restaurant Marketing	3.0
RHM 8 Controlling Foodservice Costs	3.0
RHM 10 Culinary Fundamentals	3.0
RHM 14 Hospitality and Restaurant Management	3.0
RHM 17 Sanitation - ServeSafe Certification	3.0
RHM 24 Hospitality Human Resources Management and Supervision	3.0
RHM 32 Hospitality Business Ownership	3.0
RHM 42 Cooperative Work Experience Education	1.0-3.0
BUS 10* Intro to Business	3.0
Restricted Electives	12.0
<i>(Choose 12 units from the list below)</i>	
BT 51 Spreadsheet Applications	4.0
BUS 69 Business Plan Development	4.0
CIS 1* Computer Information Systems	4.0
DM 10 Digital Storytelling	4.0
DM 63 Desktop Publishing Applications	4.0
Unrestricted Electives as needed to complete 60 units total	
Total Units	60.0
* Course may be double counted toward General Education.	

About this Degree

Upon completion of the Restaurant & Hospitality Management A.S. Degree, students will understand the responsibilities of management in the restaurant business. Students will develop skills in purchasing, professional service, food and beverage cost control, legal aspects of operating a restaurant, and gain a solid foundation in basic culinary skills.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Advisor or contact the Career & Technical Education Division.

Program Learning Outcomes

- Identify and apply current public health and safety standards as applied to hotel and restaurant settings.
- Describe methods and techniques to effectively recruit, train, and supervise hospitality and foodservice employees.
- Provide an inventory of methods and processes for maintaining the financial well being of lodging and foodservice facilities, including accounting, marketing, and cost control.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Certificate of Achievement, Restaurant & Hospitality Management	
Program Requirements	Units
RHM 1 Intro to the Hospitality Industry	3.0
RHM 3 Bar and Beverage Management	3.0
RHM 6 Hospitality & Restaurant Marketing	3.0
RHM 8 Controlling Food Service Costs	3.0
RHM 10 Culinary Fundamentals	3.0
RHM 14 Hospitality & Restaurant Management	3.0
RHM 17 Sanitation - ServSafe Certification	3.0
RHM 24 Hospitality Human Resources Management & Supervision	3.0
RHM 32 Hospitality Business Ownership	3.0
RHM 42 Restaurant and Hospitality Management Cooperative Work Experience Education	1.0-3.0
Total Units	28.0-30.0

About this Certificate

Upon completion of the Restaurant & Hospitality Management Certificate of Achievement, students will understand the responsibilities of management in the restaurant business. Students will develop skills in purchasing, professional service, food and beverage cost control, legal aspects of operating a restaurant, and gain a solid foundation in basic culinary skills.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Advisor or contact the Career & Technical Education Division.

Program Learning Outcomes

- Identify and apply current public health and safety standards as applied to hotel and restaurant settings.
- Describe methods and techniques to effectively recruit, train, and supervise hospitality and foodservice employees.
- Provide an inventory of methods and processes for maintaining the financial well being of lodging and foodservice facilities, including accounting, marketing, and cost control.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

SOCIOLOGY (SOC)

About the program

The Associate in Arts in Sociology for Transfer includes broad overview introductory cultural social science courses, a variety of lower division sociology courses, and social research. Themes of focus within these courses include a primary focus on socio-political process such as the law, socialization, and social institutions. Baccalaureate programs that the Associate in Arts in Sociology for Transfer degree prepares students for includes Sociology or similar majors such as Criminal Justice or Social Work. Upon completion of the degree, students will demonstrate developed sociological imagination. This includes ability to identify connections between macro level social structural forces and individual social experiences. Upon completion of the degree students will be able to propose potential solutions to social problems.

Degrees/Certificates within this Program:

- Associate in Arts Degree for Transfer, Sociology

Similar Degrees/Certificates offered at CR:

- Associate of Arts Degree, Liberal Arts: Behavioral & Social Science

Transfer Opportunities

Learn more about transferring with an Associate Degree for Transfer at www.adegreewithaguarantee.com and www.redwoods.edu/transfer

For more information

- www.redwoods.edu/sociology
- Counseling & Advising, 707-476-4150

Associate in Arts in Sociology for Transfer

	Units	CSU GE	IGETC Area	C-ID Descriptor
Required Core:	9.0-10.0			
SOC 1 Intro to Sociology	3.0	D0	4J	SOCI 110
<i>Take two courses from the following:</i>				
SOC 2 Social Problems	3.0	D0	4J	SOCI 115
SOC 15 Intro to Social Research Methods	3.0			SOCI 120
MATH 15 Introduction to Statistics	4.0	B4	2A	MATH 110
List A: Select two <i>Any course from Required Core not already used or any of the following:</i>	6.0			
SOC 5 Intro to Race and Ethnic Relations	3.0	D0	4J	SOCI 150
SOC 10 Sociology of Family and Intimate Relationships	3.0	D0		SOC 130
PSYCH 30 Social Psychology	3.0	D9	4I	PSY 170
List B: Select one <i>Any course from Required Core or List A not already used or any of the following:</i>	3.0			
SOC 3 Human Sexuality	3.0	E	4J	
SOC 9 Intro to Womens Studies	3.0	D4	4J	
SOC 33 Death and Dying: Transition and Growth	3.0	E		
ANTH 3 Cultural Anthropology	3.0	D1	4A	ANTH 120
GEOG 2 Cultural Geography	3.0	D5	4E	GEOG 120
Total Units for the Major:	19.0			
General Education (CSU GE or IGETC) units:		39.0	37.0	
Elective (UC or CSU Transferable) units:		as needed to complete 60 units total		
Total Degree Units (maximum):		60.0	60.0	
<i>* Course may be double counted toward General Education.</i>				

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Academic Advisor.

Program Learning Outcomes

- Use sociological imagination or socio-historic perspective to describe social reality, phenomena, experience, or change.
- Demonstrate understanding of basic social theories, social research ethics and tools, and the characteristics of social inequalities.
- Provide examples to illustrate theoretical sociological concepts.
- Communicate effectively orally and in writing.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

WELDING TECHNOLOGY (WT)

About the program

Programs in this field provide general and specific educational opportunities for students seeking careers requiring knowledge of welding techniques and procedures.

Degrees/Certificates within this Program:

- Associate of Science Degree, Welding Technology
- Certificate of Achievement, Welding Technology
- Certificate of Recognition, General Welding
- Certificate of Recognition, Electric Arc & Oxyacetylene Welding
- Certificate of Recognition, MIG & TIG Welding

Similar Degrees/Certificates offered at CR:

- Associate of Science Degree, CADD/CAM Design and Manufacturing
- Certificate of Achievement, CADD/CAM Design and Manufacturing
- Associate of Science Degree, Manufacturing Technology
- Certificate of Achievement, Manufacturing Technology

Career Opportunities

Employment opportunities in this field include:

- Welding supervisors
- Welding inspectors
- Welding engineers
- Educators
- Drafters
- Equipment repair
- Self-Employment
- Material/equipment sales

For more information

- Danny Walker, Professor, Welding
707-476-4595 | danny-walker@redwoods.edu
www.redwoods.edu/Welding-Technology/
- Career & Technical Division, 707-476-4341
- Counseling & Advising, 707-476-4150

Program Learning Outcomes:

- Demonstrate safe welding and shop practice.
- Setup and operate hand and power tools, manual or semi-automatic welding equipment, such as SMAW, OAW, OABW, PAC, AAW, CAC, GMAW, FCAW, MIG and MAG.
- Identify and demonstrate weld procedures, manipulative techniques, processes, layout, concepts, and theory to produce welds common to the weld industry.

Associate of Science Degree, Welding Technology

	Units
General Education Requirements	18.0
Program Requirements	40.0
Core Courses	31.0
IT 60A Basic Manufacturing Print Reading	3.0
WT 53 Basic Gas and Arc Welding	2.0
WT 54 General Gas, Braze (emphasis) Welding, and Soldering	2.0
WT 56 Intermediate Arc and Gas Welding Lab	1.0
WT 60 Welding Gas and Arc (emphasis E6013), and Gas Cutting	4.0
WT 61 Welding and Gouging, Gas and Arc (emphasis E7018, Braze)	4.0
WT 63 Weld Inspection, Testing, Resistance, and Pattern Cutting	4.0
WT 64 Welding (emphasis Cored Wire), Surfacing, Lancing, and Automated Cutting	4.0
WT 67 Special Welding Lab (emphasis AWS certification)	2.0
WT 80 Welding Fabrication	2.0
WT 90 Gas Metal Arc and Gas Tungsten Arc Welding	2.0
WT 91 Gas Metal Arc and Gas Tungsten Arc Welding Lab	1.0
Restricted Electives (Choose 9 units from the list below)	9.0
BUS 10* Introduction to Business	3.0
CET 10* Survey of Electronics	3.0
CT 78A Residential Wiring I	2.0
CT 78B Residential Wiring II	2.0
IT 25 OSHA General Industry Safety Management	3.0
IT 125 OSHA Ten Hour General Industry Safety	0.5
IT 152 Technical Computer Applications Lab	1.0
MT 10 Fundamentals of Manufacturing Technology	3.0
MT 52 Introduction to Metallurgy and Material Science	3.0
WT 40 Independent Study	0.5-2.0
Unrestricted Electives as needed to complete 60 units total.	
Total Units	60.0
* Course may be double counted toward General Education.	

About this Degree

Programs in this field provide general and specific educational opportunities for students seeking careers requiring knowledge of welding techniques and procedures.

Suggested Program Sequence

- Semester 1: IT-60A, WT-53, WT-90, WT-91 GE Area D1, GE Area D3
 Semester 2: WT-54, WT-80, GE and Restricted Electives
 Semester 3: WT-56, GE and Restricted Electives
 Semester 4: WT-67, GE and Restricted Electives

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

Certificate of Achievement, Welding Technology	
Program Requirements	Units
IT 60A Basic Manufacturing Blueprint Reading	3.0
MATH 120 Intermediate Algebra	4.0
MT 52 Ferrous Metallurgy	3.0
WT 53 Basic Gas and Arc Welding	2.0
WT 54 General Gas, Braze (emphasis) Welding, and Soldering	2.0
WT 56 Intermediate Arc and Gas Welding Lab	1.0
WT 67 Special Welding Lab (emphasis AWS certification)	2.0
WT 80 Welding Fabrication	2.0
WT 90 Gas Metal Arc and Gas Tungsten Arc Welding	2.0
WT 91 Gas Metal Arc and Gas Tungsten Arc Welding Lab	1.0
Total Units	22.0

About this Certificate

Programs in this field provide general and specific educational opportunities for students seeking careers requiring knowledge of welding techniques and procedures.

Suggested Program Sequence

Fall Start

Semester 1: IT-60A, WT-54, WT-56, WT-80, MATH-120

Semester 2: MT-52, WT-53, WT-67, WT-90, WT-91

Program Learning Outcomes

- Demonstrate safe welding and shop practice.
- Setup and operate hand and power tools, manual or semi-automatic welding equipment, such as SMAW, OAW, OAC, OABW, PAC, AAW, CAC, GMAW, FCAW, MIG and MAG.
- Identify and demonstrate weld procedures, manipulative techniques, processes, layout, concepts, and theory to produce welds common to the weld industry.

Certificate of Recognition, General Welding	
Program Requirements	Units
WT 54 Basic Gas and Arc Welding	2.0
WT 56 Intermediate Arc and Gas Welding Lab	1.0
WT 60 Welding Gas and Arc (emphasis E6013), and Gas Cutting	4.0
WT 61 Welding and Gouging, Gas and Arc (emphasis E7018, Braze)	4.0
WT 67 Special Welding Lab (emphasis AWS certification)	2.0
WT 80 Welding Fabrication	2.0
Total Units	15.0

About this Certificate

Programs in this field provide general and specific educational opportunities for students seeking careers requiring knowledge of welding techniques and procedures.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Advisor or the Career & Technical Education Division.

Program Learning Outcomes

- Demonstrate safe welding and shop practice.
- Setup and operate hand and power tools, manual or semi-automatic welding equipment, such as SMAW, OAW, OAC, OABW, PAC, AAW and CAC.
- Identify and demonstrate weld procedures, manipulative techniques, processes, layout, concepts, and theory to produce welds common to the weld industry.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Certificate of Recognition, Electric Arc & Oxyacetylene Welding	
Program Requirements	Units
MT 52 Ferrous Metallurgy	3.0
WT 53 Basic Gas and Arc Welding	2.0
WT 54 General Gas, Braze (emphasis) Welding, and Soldering	2.0
WT 56 Intermediate Arc and Gas Welding Lab	1.0
WT 80 Welding Fabrication	2.0
Total Units	10.0

About this Certificate

Programs in this field provide general and specific educational opportunities for students seeking careers requiring knowledge of welding techniques and procedures.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Advisor or the Career & Technical Education Division.

Program Learning Outcomes

- Demonstrate safe welding and shop practice.
- Setup and operate hand and power tools, manual or semi-automatic welding equipment, such as SMAW, OAW, OAC, OABW, PAC, AAW, MIG and MAG.
- Identify and demonstrate weld procedures, manipulative techniques, processes, concepts, and theory to produce welds common to the weld industry.

Certificate of Recognition, MIG & TIG Welding	
Program Requirements	Units
MT 52 Ferrous Metallurgy	3.0
WT 53 Basic Gas and Arc Welding	2.0
WT 54 General Gas, Braze (emphasis) Welding, and Soldering	2.0
WT 90 Gas Metal Arc and Gas Tungsten Arc Welding	2.0
WT 91 Gas Metal Arc and Gas Tungsten Arc Welding Lab	1.0
Total Units	10.0

About this Certificate

Programs in this field provide general and specific educational opportunities for students seeking careers requiring knowledge of welding techniques and procedures.

Suggested Program Sequence

For information about the program length and suggested sequence of courses for this degree, please see an Advisor or the Career & Technical Education Division.

Program Learning Outcomes

- Demonstrate safe welding and shop practice.
- Setup and operate hand and power tools, manual or semi-automatic welding equipment, such as SMAW, OAW, OAC, OABW, PAC, AAW and CAC.
- Identify and demonstrate weld procedures, manipulative techniques, processes, layout, concepts, and theory to produce welds common to the weld industry.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

NONCREDIT & ADULT EDUCATION PROGRAMS

About the Program

College of the Redwoods Adult Education offers classes and programs at numerous locations throughout Humboldt and Del Norte Counties. Programs are designed to increase educational attainment and career success by providing the preparation and skills needed for employment, continuing education, and personal growth.

Degrees/Certificates within this Program:

- Certificate of Competency, Academic Readiness in Mathematics
- Certificate of Competency, Career and College Foundations
- Certificate of Competency, Community and Career English as a Second Language
- Certificate of Competency, Community English as a Second language
- Certificate of Completion, Federal Wildland Firefighter
- Certificate of Competency, High School Equivalency Preparation
- Certificate of Completion, State Wildland Firefighter
- Certificate of Competency, Successful Veterans in College
- Certificate of Completion, Workplace Readiness

For more information

Counseling & Advising, 707-476-4150

Academic Readiness in Mathematics, Certificate of Competency

A noncredit Certificate of Competency in mathematics. This sequence of noncredit basic mathematics courses serves as a pathway to credit-bearing mathematics courses by providing students with a foundation in arithmetic and pre-algebra. Completion of this certificate also benefits students in other programs or careers where knowledge of fundamental mathematical concepts is essential for success.

Program Requirements	Units	Hours
MATH 272 Arithmetic for College Preparation	0.0	72
MATH 276 Pre-Algebra for College Preparation	0.0	72
Total Units/Hours	0.0	144

NOTE: Students with demonstrated competence in Math 272 material may complete the certificate requirements by successful completion of Math 276 only.

Program Learning Outcomes

- Demonstrate mathematical skills at an appropriate level for future progression in basic skills mathematics courses.

Career and College Foundations, Certificate of Competency

A noncredit Certificate of Competency to help students successfully transition to college or a new career. This sequence of three courses allows students to explore their options and discover what they need to learn to be successful in reaching their academic or vocational goals. Work and college readiness is developed through instruction in reading and computer literacy to prepare students for further education or a new career.

Program Requirements	Units	Hours
EDUC 207 Getting Started with Computers	0.0	32
EDUC 220 Career and College Foundations	0.0	3-90
READ 260 Developing Literacy	0.0	75
Total Units/Hours	0.0	110-200

Program Learning Outcomes

- Demonstrate skills necessary for college or career readiness.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

Community English as a Second Language, Certificate of Competency

A noncredit Certificate of Competency providing instruction in community-based English language skills to non-native speakers of English at the beginning level. Students who complete these four courses will be able to communicate about basic needs and common activities in everyday social situations. Reading skills and sentence writing related to survival skills and personal topics are emphasized. Students will learn vocabulary related to career and educational options and practice basic computer skills in English.

Program Requirements	Units	Hours
ESL 200 Fundamental English as a Second Language (ESL) - Low Beginning	0.0	0-64
ESL 201 Fundamental English as a Second Language (ESL) - High Beginning	0.0	64
ESL 205 Fundamental Career and Education Vocabulary for ESL Students	0.0	16
ESL 207 Fundamental Computer Vocabulary for ESL Students	0.0	32
Total Units/Hours	0.0	112-176

Program Learning Outcomes

- Demonstrate competency in applying commonly used words, phrases, simple learned expressions and questions in familiar contexts for community use.

Community and Career English as a Second Language, Certificate of Competency

A noncredit Certificate of Competency providing instruction in English language skills for personal and vocational use to non-native speakers of English at the intermediate level. This sequence of courses is designed for students who want focused practice on listening, speaking, reading and writing beyond survival skills or common topics. Students who complete these courses will develop practical English skills for both personal and workplace settings with a focus on educational and career goals. Workplace readiness through developing computer competency is also emphasized.

Program Requirements	Units	Hours
ESL 210 Intermediate English as a Second Language (ESL) - Low	0.0	0-70
ESL 211 Intermediate English as a Second Language (ESL) - High	0.0	70
ESL 215 Intermediate Career and Education Vocabulary for ESL Students	0.0	32
ESL 217 Intermediate Computer Vocabulary for ESL Students	0.0	32
Total Units/Hours	0.0	134-204

Program Learning Outcomes

- Demonstrate competency in applying commonly used words, phrases, simple learned expressions and questions in professional contexts for career use.

Federal Wildland Firefighter, Certificate of Completion

A noncredit Certificate of Completion in firefighting, fire control and safety in the wildland fire environment. Students completing this certificate will have the knowledge and skills to work as an entry-level wildland firefighter. This sequence of four courses covers the National Wildfire Coordinating Group (NWCG) training requirements to be eligible for employment as a wildland firefighter for the United States Forest Service, National Parks Service, or Bureau of Land Management. Successful completion of this State Wildland Firefighter certificate does not assure employment with a federal agency.

Program Requirements	Units	Hours
FT 201 Wildland Fire Behavior Training	0.0	8
FT 202 Basic Firefighting Training	0.0	40
FT 210 Hazardous Materials First Responder Operational	0.0	16
HLTH 207 First Aid/CPR/AED	0.0	9
Total Units/Hours	0.0	73

Program Learning Outcomes

- Demonstrate the knowledge and skills to safely perform the tasks required to become an entry-level wildland firefighter.

State Wildland Firefighter, Certificate of Completion

A noncredit Certificate of Completion in wildland and structural firefighting. Students completing this certificate will have the knowledge and skills to perform the duties of an entry-level wildland firefighter as required by the California Department of Forestry and Fire Protection (CAL FIRE). Public First Aid (included in this certificate), EMR, or EMT training is required for employment with CAL FIRE. Students are eligible to apply for CAL FIRE certification on successful completion of the training during the CAL FIRE Basic Firefighter Academy when taught by a CAL FIRE instructor.

Program Requirements	Units	Hours
FT 201 Wildland Fire Behavior Training (NWCG S-190)	0.0	6
FT 205 CAL FIRE Basic Firefighter - 80 Hours	0.0	80
FT 206 Confined Space Awareness	0.0	8
FT 207 Firefighter Survival	0.0	16
FT 210 Hazardous Materials First Responder Operational	0.0	16
HLTH 207 First Aid/CPR/AED	0.0	0-24
Total Units/Hours	0.0	126-150

Program Learning Outcomes

- Demonstrate the basic knowledge and skills to safely perform the tasks required by the California Department of Forestry and Fire Protection (CAL FIRE) as an entry-level wildland firefighter.

The proposed sequences are suggestions only and are not a guarantee that specific courses will be offered as noted in the sequence.

High School Equivalency Preparation, Certificate of Competency

A noncredit Certificate of Competency for students who want to build skills in the core academic subjects to prepare for a high school equivalency test. This sequence of two courses will provide students with a review of the content at the elementary and secondary level. Content is individualized and based on need.

Program Requirements	Units	Hours
EDUC 210 Adult Basic Education	0.0	0-90
EDUC 225 High School Equivalency/GED Preparation	0.0	75
Total Units/Hours	0.0	75-165

Program Learning Outcomes

- Identify and apply concepts learned in the core subjects at the secondary level to prepare students for the high school equivalency test.

Successful Veterans in College, Certificate of Competency

A noncredit Certificate of Competency preparing veterans to successfully transition to college life. This sequence of courses enables students to honor their life experiences and convert their military training into lifelong success skills. It will give students the opportunity to explore possible careers based on personal, military and vocational skills, discover veteran-specific support services available on and off campus, and develop necessary skills to nurture personal and professional development. This certificate provides an entry point for veterans to begin their education and increase their employment options.

Program Requirements	Units	Hours
GUID 275 Boots to Books	0.0	36
GUID 276 Roadmap to Resiliency	0.0	36
Total Units/Hours	0.0	72

Program Learning Outcomes

- Demonstrate strategies to allow students to pursue and persist in academic pathways from the military to a new career.

Workplace Readiness, Certificate of Completion

A noncredit Certificate of Completion preparing students with essential work readiness skills in order to enter the workforce. This certificate is the first in a series of three certificates providing workforce training. Students will develop skills in core areas including mathematical reasoning, workplace communication, and basic computer Completion. Students will explore career pathways and develop a plan to meet education and career goals. Upon completion, students will earn a certificate that shows that they have the essential skills required for success in the 21st century workplace.

Program Requirements	Units	Hours
WORK 201 Work Readiness for the 21st Century	0.0	60
GUID 213 Explore Your Career Options	0.0	24
Total Units/Hours	0.0	84

Program Learning Outcomes

- Demonstrate work readiness skills to gain employment in a selected career.

Students considering transfer to another college or university should see a counselor or academic advisor before selecting additional courses and electives.

COURSE DESCRIPTIONS

The following section lists the courses available to be offered by the College at the time this Catalog was printed. Not all courses are offered in any given semester, and additional courses may have been added since publication of this document. Please check WebAdvisor for course offerings available any specific semester.

■ Addiction Studies [ADCT]

ADCT-10 Introduction to Addiction Studies

(3 Units LEC) Grade only
Transfers to: CSU

Examination of use, abuse and addiction with alcohol and other psychoactive drugs. Includes drug classifications, mental and physical effects and effects on society. Course will include physiology, pharmacology, treatment, prevention and enforcement.

ADCT-11 Pharmacology and Physiology of Addiction

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: CSU

An overview of the pharmacological and physiological actions and effects of alcohol and other drugs on the various systems of the body. Course work examines how the body develops tolerance to drugs and how cycles of drug use and dependence develop. Also explored is the impact of drug use/abuse upon families and society.

ADCT-12 Substance Abuse: Law, Prevention, Treatment & Ethics

(3 Units LEC) P/NP option
Recommended Prep: ENGL-150
Transfers to: CSU

An examination of historical and legal parameters that support a broad array of evidence-based substance abuse prevention and treatment programs, with an emphasis on the legal, cultural and ethical standards that guide multi-disciplinary teams and cross-agency interactions.

ADCT-13 Addictions and Co-Occurring Disorders in Special Populations

(3 Units LEC) Grade only
Prerequisite: ADCT-10 or concurrent enrollment
Recommended Prep: ENGL-150
Transfers to: CSU

An examination of the special issues involved in the etiology, treatment and prevention of alcoholism, other types of substance abuse and process addictions and co-occurring disorders among specific populations of high-risk groups, with special concerns or problems unique to that population.

ADCT-15 Introduction to Counseling Skills

(3 Units LEC/LAB) Grade only
Prerequisite: ADCT-10
Recommended Prep: ENGL-150
Transfers to: CSU

A presentation of the theoretical concepts of counseling for individuals, families, and groups. Processed role-plays help students to develop effective core counseling skills. Personal values, ethical, legal, and crisis intervention issues are also addressed.

ADCT-16 Addiction and the Family System

(3 Units LEC) Grade only
Prerequisite: ADCT-10 or concurrent enrollment
Recommended Prep: ENGL-150
Transfers to: CSU

An exploration of family and community systems and their relationship to individual development from childhood to adulthood, emphasizing intervention to interrupt addictive family patterns.

ADCT-17 Field Placement Seminar II

(2 Units LEC) Grade only
Prerequisite: ADCT-15 and SOC-38/ADCT-38 and SOC-42
Corequisite: ADCT-42
Recommended Prep: ENGL-150 and SOC-34
Transfers to: CSU

A seminar focused on discussing the students' experiences in their supervised occupational work experience in ADCT-42. This course provides advanced ADCT certificate candidates the opportunity to analyze and integrate their practical work experiences in ADCT-42 through study, dialogue, and technique demonstration.

ADCT-38 Field Placement Seminar I

(2 Units LEC) Grade only
Prerequisite: SOC-34 or concurrent enrollment
Corequisite: SOC-42
Recommended Prep: ENGL-1A
Transfers to: CSU

A focused exploration of case studies utilizing social work theory, emphasizing the development of social work skills, the principles of agency organization, and the nature of community social need and problems.

Note: Same as SOC-38. Field trips are required and the College does not provide transportation.

ADCT-42 Supervised Occupational Work Experience II

(2.5 Units FEX) Grade only
Prerequisite: ADCT-15 and SOC-38/ADCT-38 and SOC-42
Corequisite: ADCT-17
Recommended Prep: ENGL-150 and SOC-34
Transfers to: CSU

Individualized supervised work experience in an approved addictions treatment services agency. Work experience will provide advanced ADCT candidates with the opportunity to apply previous ADCT learning to practical work experience through dialogue, and skill and technique demonstrations.

Note: This is a capstone course intended for students in their final semester of course work in addiction studies. Field trips are required and the college does not provide transportation. The student, with assistance from the instructor, is responsible for locating and arranging for the contracts with the agency to complete the 135 hours.

ADCT-210 Understanding Drug/Alcohol Abuse and Treatments

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A course designed to create an understanding of drug and alcohol abuse from a sociological and physiological perspective. Students will learn about various aspects of recovery and the recovery process. Topics will include: treatments, detox processes, support groups, and post-recovery issues.

■ Administration of Justice [AJ]

AJ-1 Introduction to Administration of Justice

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: AJ 110

An introductory course about the criminal justice system. Topics include the operation of the criminal justice system, the roles of criminal justice agents in the system and their relationship with the general public; concepts of crime causation, punishment and rehabilitation; ethics; and education for workers in the criminal justice system.

AJ-3 Introduction to Corrections

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: CSU
C-ID: AJ 200

An introductory course of the field of corrections. Topics include: historical development; current concepts and practices; explanations of criminal behavior; functions and objectives of the criminal justice system concerned with institutional, probation, and parole processes as they modify the offender's behavior; survey of professional career opportunities in public and private agencies.

AJ-4 Criminal Law

(4 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: AJ 120

An overview of the development of the criminal law. Topics include: historical development, philosophy of law and constitutional provisions; definitions, classifications of crimes and legal defenses and their applications to the system of administration of justice; legal research, review of case law methodology and concepts of law as a social force.

AJ-6 Criminal Evidence

(4 Units LEC) Grade only
Recommended Prep: ENGL-150 and AJ-4
Transfers to: CSU
C-ID: AJ 124

A course designed to provide students a working knowledge of evidence and case law relating to the admission of evidence in legal proceedings. Topics include the following: Origin, development, philosophy, and constitutional basis of evidence; constitutional, statutory, and procedural considerations which affect the admissibility of evidence; kinds and degrees of evidence; and case studies viewed from the conceptual level.

AJ-7 Current Issues in Criminal Justice

(3 Units LEC) Grade only
Recommended Prep: ENGL-150 or ENGL-102, and AJ-1
Transfers to: UC and CSU

A study of current issues facing the criminal justice system. Such issues include police use of force, unlawful discrimination, capital punishment, mandatory sentencing laws, crime prevention strategies, and juvenile delinquency and gang crime.

AJ-8 Criminal Investigation

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: CSU
C-ID: AJ 140

A survey of the basic principles of criminal investigations. Topics include: the fundamentals of investigation; techniques of crime scene searches;

the collection and preservation of physical evidence, sources of information; interview and interrogation; and follow-up investigations.

AJ-10 Juvenile Justice

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: CSU
C-ID: AJ 220

A survey of the history and operation of the juvenile justice system and its component parts. Among the topics to be studied are the classes of juvenile offenders and victims, diversion programs, theories of juvenile behavior; the juvenile justice process, and a comparison of the adult and juvenile justice systems.

AJ-81 Basic Law Enforcement Academy Module III

(8 Units LEC/LAB) Grade only
Recommended Prep: ENGL-150
Transfers to: CSU

Entry level training in law enforcement. This course is designed to meet the state mandated POST training requirements for the Basic Peace Officer Level III modular training course. Students completing this course will have met all the training requirements for Reserve Officer Level III, or the first of three classes required for full-time Peace Officer. The course also satisfies the arrest and firearms training requirement specified in Penal Code Section 832. The overall course is highly structured and paramilitary in nature.

Note: Before enrolling, students must pass: 1. The POST pre-entry English skills assessment exam with a score of T-40 or above. (May be waived if hired by California law enforcement agency prior to Academy). 2. A medical exam by a licensed physician or similar medical professional. 3. A criminal history records check (fingerprinting) pursuant to the California Penal Code. This must be completed and the results obtained before the first day of class. 4. A DMV printout of the student's driving record.

AJ-82 Basic Law Enforcement Academy Module II

(8.5 Units LEC/LAB) Grade only
Perequisite: AJ-81
Recommended Prep: ENGL-150
Transfers to: CSU

Level II reserve officer training. This course is designed to meet the state mandated POST training requirements for the Basic Peace Officer Level II modular training course. Students completing this course will have met all the training requirements for Reserve Officer Level II, or the second of the three classes required for full-time Peace Officer. The overall environment is highly structured and paramilitary in nature.

Note: Before enrolling, students must pass: 1. The POST pre-entry English skills assessment exam with a score of T-42 or above. (May be waived if hired by California law enforcement agency prior to Academy). 2. A medical exam by a licensed physician or similar medical professional. 3. A criminal history records check (fingerprinting) pursuant to the California Penal Code. This must be completed and the results obtained before the first day of class. 4. A DMV printout of the student's driving record. 5. A basic physical fitness test by running 1.5 miles in under 17 minutes, completing 25 sit-ups in one minute or less and 20 pushups (straight leg) in one minute or less.

AJ-83 Basic Law Enforcement Academy Module I

(16 Units LEC/LAB) Grade only
Perequisite: AJ-82
Recommended Prep: ENGL-150
Transfers to: CSU

Final of three parts leading to completion of the POST Basic Law Enforcement Academy. Students completing this module may be appointed as either full-time peace officers or Level I reserve officers. The overall

course is highly structured and paramilitary in nature.

Note: Before enrolling, students must pass: 1. The POST pre-entry English skills assessment exam with a score of T-42 or above. (May be waived if hired by California law enforcement agency prior to Academy). 2. A medical exam by a licensed physician or similar medical professional. 3. A criminal history records check (fingerprinting) pursuant to the California Penal Code. This must be completed and the results obtained before the first day of class. 4. A DMV printout of the student's driving record. 5. A basic physical fitness test by running 1.5 miles in under 17 minutes, completing 25 sit-ups in one minute or less and 20 pushups (straight leg) in one minute or less.

AJ-100 Mandated Training

(0.5 Units LAB) P/NP only
Prerequisite: AJ-83

A POST-approved perishable skills course that covers tactical firearms, driver training/awareness, arrest and control, as well as various short courses mandated by the legislature. Peace officers are required to have this training every two years. This course meets the POST Continuing Professional Training (CPT) requirements.

AJ-101 Active Shooter Response

(0.5 Units LEC) P/NP only
Perequisite: AJ-80 or AJ-83

Law enforcement response to an active shooter situation. This course is designed to train active duty law enforcement officers on current response methods to an active shooter incident by studying previous situations, learning from how those were handled, and applying the lessons learned to staged events.

AJ-103 Radar Operator

(1.0 Units LEC) P/NP only

Operation of the police radar. Students will identify the purpose of radar within law enforcement, as related to its history, application, laws, and principles of speed enforcement. Additionally, students will develop the skills, knowledge and abilities necessary to conduct visual estimations of vehicle speed accurately, and assemble, test, and operate a radar unit in support of visual speed estimations. Course complies with all content requirements per California Vehicle Code Section 40802.

Note: Scientific calculator required.

AJ-105 Probation Firearms

(2 Units LEC/LAB) P/NP only
Perequisite: AJ-190F

An intermediate-level course designed for probation officers who are going to be armed with a handgun in the performance of their job. The course covers use of force; working in a coordinated team with law enforcement; concealment, cover and shooting positions; night shooting; role of the back-up officer; shotgun and rifle familiarization and a review of policies.

Note: Must be employed as a probation officer whose job will involve carrying a firearm.

AJ-106 Field Training Officer Update

(1.0 Units LEC) P/NP only

A course which satisfies California POST mandates for the tri-annual re-certification of Field Training Officers. Topics include Legal Issues, Contemporary Learning, Teaching Skills, Leadership, Ethics and Professionalism, Remediation Testing/Scenarios, Trainee Termination, Evaluation Documentation, and Report Writing.

AJ-107 Basic Traffic Collision Investigation

(2 Units LEC) P/NP only

A POST certified course designed to provide the student with skills and knowledge to properly investigate and document traffic collisions. The

course completes peace officer requirements to write traffic collision-related notices of violations based on reasonable cause per California Vehicle Code Section 40600.

AJ-108 Field Training Officer

(2 Units LEC) P/NP only

A course which satisfies California POST and legislative mandates for the training of Field Training Officers. Topics include: Legal Issues, Contemporary Learning, Teaching Skills, Leadership, Ethics and Professionalism, Remediation Testing/Scenarios, Trainee Termination, Evaluation Documentation, and Report Writing.

AJ-170 Public Safety Dispatcher Basic Course

(5.5 Units LEC/LAB) P/NP only

A training course certified by the California Commission on Peace Officers Standards and Training (POST) designed to meet the statutory basic training requirements for employment as a dispatcher for a public safety (law enforcement) agency.

AJ-190F PC 832 Firearms

(0.5 Units LEC/LAB) P/NP only

A course which fulfills the minimum firearms requirement for the California Commission on Peace Officer Standards & Training (POST) PC 832. This is a standardized course and is certified by POST.

Note: Under state law, students must pass a California Department of Justice fingerprint check before using a handgun or participating in this course.

AJ-190S PC 832 Arrest & Control

(1.5 Units LEC/LAB) P/NP only

A course which fulfills the minimum arrest and control training requirements of the California Commission on Peace Officer Standards & Training (POST) for PC 832. This standardized test is certified by POST.

■ Agriculture [AG]

AG-3 Introduction to Animal Science

(3 Units LEC/LAB) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: AG-AS 104

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.

Note: Laboratory and field trips are required.

AG-5 Introduction to Animal Science

(3 Units LEC) Grade only
Recommended Prep: ENGL-150 or ENGL-102
Transfers to: UC and CSU

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.

AG-7 Livestock Feeding and Nutrition

(3 Units LEC/LAB) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: AG-AS 132L

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.

Note: Laboratory required.

AG-15 Landscape Maintenance

(3 Units LEC/LAB) Grade only
 Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153
 Transfers to: CSU

A course of study of the function and aesthetic value of public and private landscapes by applying appropriate maintenance techniques. Topics include planting, pruning, watering, soil fertility, pest management, weed control, and landscape maintenance business practices.

Note: Field trips required.

AG-17 Introduction to Soil Science

(3 Units LEC/LAB) Grade only
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU
 C-ID: AG-PS 128L

The study of soil physical, chemical and biological properties. Soil classification, derivation, use, function and management including erosion, moisture retention, structure, cultivation, organic matter and microbiology. Laboratory topics include soil type, classification, soil reaction, soil fertility and physical properties of soil.

Note: Laboratory required.

AG-21 Plant Propagation/Production

(3 Units LEC/LAB) Grade only
 Transfers to: UC and CSU
 C-ID: AG-EH 116L

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.

Note: Laboratory required.

AG-22 Sustainable Vegetable Production

(3 Units LEC/LAB) Grade only
 Transfers to: CSU

A course which studies sustainable vegetable production, and which also covers the botany, cultural production, harvesting, processing, growth characteristics, fertility, pests, and marketing of the major warm season and cool season vegetable crops grown in California, especially those of local importance. The commercial scale of vegetable production and sustainable practices are emphasized. Laboratory required.

Note: A field trip to a commercial vegetable farm is required.

AG-23 Introduction to Plant Science

(3 Units LEC/LAB) Grade only
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU
 C-ID: AG-PS 106L

Introduction to plant science including structure, growth processes, propagation, physiology, growth media, biological competitors, and post-harvest factors of food, fiber, and ornamental plants.

Note: Laboratory required.

AG-25 Landscape Construction and Installation

(3 Units LEC/LAB) Grade only
 Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153
 Transfers to: CSU

A course of study of the fundamentals of landscape construction, which includes soil preparation, paving and construction materials, hand and power tool use, turf and plant installation, plan reading, estimat-

ing, and bid preparation. This course also covers local codes, state requirements, and new technologies.

Note: Field trips required.

AG-27 Nursery Practices

(3 Units LEC/LAB) Grade only
 Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153
 Transfers to: CSU

A course of study of the production and cultural care of commercial container grown and field grown nursery operations. Among the topics covered are: crop scheduling, growing media, watering, fertilization, lighting, pests, temperature control, post harvest handling, marketing and sales.

Note: Field trips required.

AG-30 Introduction to Agriculture Business

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150 or ENGL-102
 Transfers to: UC and CSU
 C-ID: AG-AB 104

A course in the business and economics of the agricultural industry. This class provides 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.

AG-32 Agriculture Economics

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153, and MATH-380
 Transfers to: UC and CSU
 C-ID: AG-AB 124

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.

AG-33 Agriculture, Environment and Society

(3 Units LEC) Grade only
 Recommended Prep: AG-63 and MATH-380 and (ENGL-150 or ENGL-102 or ENGL-153)
 Transfers to: CSU

A course covering the sociology of agriculture presented through an examination of relationships between societies and their environments, economics, and agriculture. Emphasis will be on the analysis of agriculture's use of technology and the corresponding impact on the environment, economy and society.

AG-35 Agriculture Sales and Communications

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150 or ENGL-102
 Transfers to: CSU
 C-ID: AG-AB 112

The study of principles and practices of the selling process: selling strategies and approaches, why and how people buy, prospecting, territory management, and customer service. Self- management, communication, and interpersonal skills necessary in developing managerial abilities, leadership qualities, and facilitating teamwork within the agribusiness sector will be explored. 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 through hands-on projects developing solutions for agriculture business.

AG-42 Agriculture Cooperative Work Experience Education

(1-3 Units LAB) P/NP only
 Repeatability: Maximum of three enrollments
 Transfers to: CSU

A course designed to assist students in planning and accomplishing meaningful learning objectives relevant to work experience in the field of agriculture. To participate in this course the student's job must be related to their career goals or college course work. Variable 1 to 3 units based upon 60-225 total work lab hours per semester.

Note: Students must meet with the Cooperative Work Experience (CWE) Coordinator before they can be enrolled in AG-42. During fall and spring, students must be enrolled in at least 7 units (including CWE) to enroll in CWE. If enrolling in the summer, student must have been enrolled in at least 12 units (including CWE) in the previous spring semester. Students must take primary responsibility in finding a work experience opportunity and are strongly advised to find such an opportunity before enrolling in the class. Some employers or programs may require fingerprinting, drug testing, and/or background checks. Students should be advised that a maximum of 9 CWE units can be applied toward a degree. Students may enroll a total of 3 times (repeatable twice). Variable 1 to 3 units, based on 60-225 work lab hours per semester.

AG-43 Introduction to Agriculture

(2 Units LEC) Grade only
 Transfers to: CSU

An introductory course in agriculture career opportunities and job requirements in agriculture business, animal science, and plant science. Students will learn how to prepare documents necessary for employment and get hands on experience in specific careers.

Note: Field trips required.

AG-44A Agriculture Leadership I

(1 Unit LAB) Grade only
 Transfers to: CSU

A course designed to develop introductory-level leadership skills. "Hands-on" techniques will be used to facilitate problem solving, cooperative work ethics, developing initiative, managing and organizing information, flexible thinking and effective questioning. Participants will gain practical experience in conducting group business.

AG-44B Agriculture Leadership II

(1 Unit LAB) Grade only
 Prerequisite: AG-44A
 Transfers to: CSU

A course designed to develop advanced-level leadership skills. "Hands-on" techniques will be used to facilitate problem solving, cooperative work ethics, developing initiative, managing and organizing information, flexible thinking and effective questioning. Participants will gain practical experience in conducting group business.

AG-44C Agriculture Leadership III

(1 Unit LAB) Grade only
 Prerequisite: AG-44B
 Transfers to: CSU

A course designed to polish advanced-level leadership skills. "Hands-on" techniques will be used to facilitate problem solving, cooperative work ethics, developing initiative, managing and organizing information and participating in business meetings. Participants will gain practical experience in organizing, conducting and evaluating group activities.

AG-44D Agriculture Leadership IV*(1 Unit LAB) Grade only**Prerequisite: AG-44C**Transfers to: CSU*

A course designed to polish advanced-level leadership skills. "Hands-on" techniques will be used to facilitate problem solving, cooperative work ethics, developing initiative, managing and organizing information and participating in business meetings. Participants will gain practical experience in organizing, conducting and evaluating group activities.

AG-51 Tractor Operations*(3 Units LEC/LAB) Grade only**Recommended Prep: ENGL-150 or ENGL-102**Transfers to: CSU**C-ID: AG-MA 108L*

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.

*Note: Laboratory required.***AG-63 Introduction to Organic/Sustainable Agriculture***(3 Units LEC) Grade only**Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153**Transfers to: UC and CSU*

An introduction to the history, definitions, concepts, principles and practices of sustainable agriculture systems with an emphasis on organic techniques. Topics include goals of sustainable agriculture, soil sustainability, plant biology, biological diversity, cover crops, crop rotation, irrigation, integrated pest management, pruning, grafting, marketing, organic certification, sustainable livestock production, and tillage equipment.

AG-64F Introduction to Organic/Sustainable Agriculture Lab*(1 Unit LAB) Grade only**Recommended Prep: AG-63**Transfers to: UC and CSU*

A course studying the practice of growing fruits, vegetables, and livestock in the field for the fall season. Techniques of organic and sustainable agriculture will be emphasized.

AG-64S Introduction to Organic/Sustainable Agriculture Lab*(1 Unit LAB) Grade only**Recommended Prep: AG-63**Transfers to: UC and CSU*

A course studying the practice of growing fruits, vegetables, and livestock in the field for the spring season. Techniques of organic and sustainable agriculture will be emphasized.

■ Anthropology [ANTH]**ANTH-1 Introduction to Biological Anthropology***(3 Units LEC) Grade only**Recommended Prep: ENGL-150**Transfers to: UC and CSU**C-ID: ANTH 110*

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 scientific method serves as foundation of the course. Students may also enroll in the optional lab component, ANTH 1B.

ANTH-1B Introduction to Biological Anthropology Lab*(1 Unit LAB) Grade only**Prerequisite: ANTH-1 or concurrent enrollment**Recommended Prep: ENGL-150**Transfers to: UC and CSU**C-ID: ANTH 115L*

This laboratory course is offered as a supplement to Introduction to Biological Anthropology either taken concurrently or in a subsequent term. Laboratory exercises are designed to introduce students to the scientific method and explore genetics, human variation, human and non-human primate anatomy and behavior, the primate/hominin fossil record and other resources to investigate processes that affect human evolution.

Note: Students enrolled in ANTH-1 are not required to take ANTH-1B. However, any student seeking the AA degree in Anthropology or seeking to transfer for a BA in Anthropology should take this lab course. ANTH-1B may only be taken by students who have successfully completed ANTH-1 or students currently enrolled in ANTH-1.

ANTH-2 Introduction to Archaeology*(3 Units LEC/LAB) Grade only**Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153**Transfers to: UC and CSU**C-ID: ANTH 150*

This course is an introduction to the study of concepts, theories, data and models of anthropological archaeology that contribute to our knowledge of the human past. The course includes a discussion of the nature of scientific inquiry; the history and interdisciplinary nature of archaeological research; dating techniques; methods of survey, excavation, analysis, and interpretation; cultural resource management; professional ethics; and selected cultural sequences. This course includes a lab component.

ANTH-3 Introduction to Cultural Anthropology*(3 Units LEC) Grade only**Recommended Prep: ENGL-150**Transfers to: UC and CSU**C-ID: ANTH 120*

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.

ANTH-3H Honors Introduction to Cultural Anthropology*(3 Units LEC) Grade only**Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153**Transfers to: CSU*

This Honors 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.

Note: Honors students will be expected to write longer versions of any assigned papers or projects, focusing to a greater degree on controversies within the subject of anthropology. They will be expected to consider the issues and problems raised in these assignments in more detail than non-Honors students and to conduct more in-depth research using library and online resources, including professional publications.

ANTH-4 Introduction to Folklore*(3 Units LEC) Grade only**Recommended Prep: ENGL-150**Transfers to: UC and CSU*

A course in the collecting, presenting, and analyzing of oral, material, and written forms of folklore, such as urban legends, folk art, foodways, folk music, folkspeech, gestures, and superstitions. Emphasis will be on analysis of collections and the use of folklore as a tool for understanding a variety of cultures.

ANTH-5 Great Archaeological Discoveries*(3 Units LEC) Grade only**Recommended Prep: ENGL-150**Transfers to: UC and CSU*

A survey of data from noted archaeological sites from around the world. Sites to be discussed in the course will include a variety of cultures from around the world, from the beginning of human prehistory through recent historical occupations. Additionally, the course will explore relationships between archaeologists, native peoples, the media, and the public.

ANTH-6 Introduction to Forensic Anthropology*(3 Units LEC) Grade only**Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153**Transfers to: UC and CSU*

An examination of the science of solving crimes with anthropological data from human skeletal remains. Basic human skeletal anatomy will be taught in order to set the stage for examining details of criminal investigations. Students will learn how to initially estimate the sex, age, stature, race and other individual characteristics based on skeletal analysis. This course will outline how forensic anthropologists help identify skeletal remains and cause of death based on skeletal features, trauma and disease, and genetics. This course will also explore the role of forensic anthropology in working with law enforcement agencies, human rights issues, as well as ethical considerations.

ANTH-40 Independent Study in Anthropology*(0.5-2 Units IND) Grade only**Transfers to: CSU*

A course involving the individual student in research or activity in the field of Anthropology. Specific projects will be determined upon consultation with the instructor. Laboratory hours will be arranged. A written report or evaluation of the work completed will be required by the end of the semester.

■ Art [ART]

ART-1A Art History: Pre-History to Gothic

(3 Units LEC) Grade only
 Recommended Prep: ENGL-1A
 Transfers to: UC and CSU

A survey of Western visual art and architecture from Prehistory through the Middle Ages. Civilizations explored include those of the Paleolithic era, ancient Near East, ancient Egypt, Classical Greece, Etruscan and Roman, Early Jewish and Christian, Byzantine, Medieval, Romanesque, and Gothic.

ART-1B Art History: Renaissance to Contemporary

(3 Units LEC) Grade only
 Recommended Prep: ENGL-1A
 Transfers to: UC and CSU
 C-ID: ARTH 120

A survey of the history of Western art from the early Renaissance through Postmodernism. Methods of analysis include an in-depth examination of the political, religious, philosophical, economic, and cultural contexts that influenced the development of visual styles in each historical period. Emphasis is placed on the understanding of formal, material, and symbolic qualities of artwork, the role of the artist, and on developing a wide range of visual, verbal, and written lexicons.

ART-2 Introduction to Art

(3 Units LEC/LAB) Grade only
 Transfers to: UC and CSU

An introductory course designed to provide students with studio and lecture experience in the visual arts. Concepts covered include line, value, composition, color, and both two- and three-dimensional space. Media used include drawing, painting, printmaking, ceramics, sculpture, and new media.

ART-3A Introduction to Sculpture

(3 Units LEC/LAB) Grade only
 Recommended Prep: ART-11
 Transfers to: UC and CSU

A course that introduces the student to basic skills in mixed-media sculpture. The course supports traditional and non-traditional materials and their expressive possibilities.

Note: This course may require field trips for which students will arrange their own transportation.

ART-3B Intermediate Sculpture

(3 Units LEC/LAB) P/NP option
 Recommended Prep: ART-11
 Transfers to: UC and CSU

An intermediate course in sculpture that allows the student to experience working intensively with materials and concepts of their choice. The student will explore new techniques and processes, expanding on mold making techniques, metal fabrication, wood assemblage, video exploration, site-specific installation, and found object utilization.

ART-4 Art Appreciation

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153
 Transfers to: UC and CSU
 C-ID: ARTH 100

An introduction to history and practice of visual arts and architecture across time and diverse cultures. The course emphasizes theoretical approaches to examining artwork and the usage of art terminology. Methodologies include formal, material, symbolic, post-colonial, gender, and institutional critiques to provide students with multiple ways to respond to art and develop a wide range of visual, verbal, and written lexicons.

ART-6 Survey of Modern Art: 19th Century to Contemporary

(3 Units LEC) Grade only
 Recommended Prep: ENGL-1A
 Transfers to: UC and CSU

A survey of Western art and architecture from the 19th Century. This course examines artistic styles from Neo-Classicism and Romanticism to the 20th century Avant-Garde movements, through Postmodernism, Globalization, and until the present-day.

ART-10 Color and Design

(3 Units LEC/LAB) Grade only
 Transfers to: UC and CSU
 C-ID: ARTS 100

An introduction to the elements and principles upon which two-dimensional art forms are structured. Concepts covered include line, shape, value, composition, space, texture, and color theory. Media used include drawing, painting, and collage.

Note: Field trips may be required and the College does not provide transportation.

ART-11 Three-Dimensional Design

(3 Units LEC/LAB) P/NP option
 Transfers to: UC and CSU
 C-ID: ARTS 101

A course that lays the foundation for all 3-D art forms. Using basic inexpensive materials students will be introduced to the elements and principles of 3-D design and construction.

ART-14 Gallery Exhibition and Portfolio Development

(3 Units LEC/LAB) P/NP option
 Recommended Prep: College-level studio art course
 Transfers to: CSU

An exploration of the various professional careers in the visual arts. The course includes portfolio, resume, and art statement preparation, exhibition installation, and also visits to galleries, museums, and working professionals in the fine and commercial art fields.

Note: Field trips are required. Students must provide their own transportation.

ART-17 Basic Drawing

(3 Units LEC/LAB) Grade only
 Transfers to: UC and CSU
 C-ID: ARTS 110

A beginning level course that introduces students to a variety of concepts for visual literacy and visual expression in drawing: including line, composition, value, color, space, and perspective. Media used includes graphite, charcoal, ink, pastel, and collage.

ART-18 Intermediate Drawing

(3 Units LEC/LAB) P/NP option
 Recommended Prep: ART-17
 Transfers to: UC and CSU
 C-ID: ARTS 205

An intermediate level course that expands upon skills learned in basic drawing and other introductory art courses. Specialized drawing techniques in dry and wet media will be introduced as well as contemporary, experimental, and conceptual approaches and issues.

ART-19 Figure Drawing

(3 Units LEC/LAB) Grade only
 Recommended Prep: ART-17
 Transfers to: UC and CSU
 C-ID: ARTS 200

An introduction to the fundamentals for drawing the living human form. Concepts explored include gesture, contour, proportion, foreshortening, portraiture and anatomy. Students will also explore the expressive characteristics and narrative possibilities

of figure drawing in both traditional and contemporary contexts.

Note: Nude and clothed models are used in this course.

ART-22 Techniques in Watercolor

(3 Units LEC/LAB) Grade only
 Recommended Prep: ART-10 or ART-17
 Transfers to: UC and CSU

A course that introduces the fundamental skills for painting with transparent and opaque watercolor, including color and value mixing, compositional development, and application methods. This course presents both traditional and contemporary techniques and approaches.

Note: Field trips may be required and the College does not provide transportation.

ART-23 Painting

(3 Units LEC/LAB) Grade only
 Recommended Prep: ART-10 or ART-17
 Transfers to: UC and CSU
 C-ID: ARTS 210

A course that introduces the fundamentals for oil and acrylic painting, including value, color, composition, space, impasto, and glazing techniques. This course presents both traditional and contemporary techniques and approaches.

Note: Field trips may be required and the College does not provide transportation.

ART-31A Introduction to Ceramics (Hand-building)

(3 Units LEC/LAB) Grade only
 Recommended Prep: ART-11
 Transfers to: UC and CSU

An introductory course designed to expose students to the fundamental construction methods and processes of working with clay. In addition, this course is designed to introduce students to ceramic vocabulary as well as glazing and firing techniques.

Note: Field trips may be required and the College does not provide transportation.

ART-31B Introduction to Ceramics (Wheel)

(3 Units LEC/LAB) P/NP option
 Recommended Prep: ART-11
 Transfers to: UC and CSU

An introductory course in ceramics using the potter's wheel to explore both functional and non-functional forms. This course will also provide instruction in basic glaze chemistry and kiln firing procedures.

Note: Field trips may be required and the College does not provide transportation.

ART-32 Experimental Ceramics

(3 Units LEC/LAB) P/NP option
 Recommended Prep: ART-31A or ART-31B
 Transfers to: UC and CSU

A course in experimental ceramics that introduces a variety of experimental concepts in clay including: clay body and glaze formulation, clay construction, surface treatments, mold making and various firing techniques.

Note: Field trips may be required and the College does not provide transportation.

ART-35 Digital Photography

(3 Units LEC/LAB) Grade only
 Transfers to: UC and CSU

An introduction to digital photography. Concepts explored include tools, materials, and processes, the elements of design, and historical and contemporary trends.

Note: Field trips may be required and the College does not provide transportation.

ART-40 Independent Study in Art

(.5-2 Units IND) Grade only
Transfers to: CSU

Individual research and special projects in Art. Specific projects will be determined upon consultation with instructor.

ART-42 Beginning Graphic Design

(3 Units LEC/LAB) Grade only
Transfers to: UC and CSU

An introduction to the principles, tools, and methodologies of graphic design. Students are introduced to industry-standard software including Adobe Illustrator, InDesign, and Photoshop to execute a series of fine and applied art projects.

ART-43A Introduction to Digital Art

(3 Units LEC/LAB) Grade only
Transfers to: UC and CSU

An introduction to fundamental concepts, practices, and theories of digital art. Topics include integration of traditional design, color, and compositional principles with contemporary digital technologies, including Photoshop.

ART-54 Drawing Lab

(1 Unit LAB) Grade only
Recommended Prep: ART-17
Transfers to: UC and CSU

A course designed to provide individualized instruction within the classroom context of ART-17. Students will be encouraged to pursue independent directions in drawing.

Note: Students cannot enroll in the concurrently offered section of ART-17.

ART-56 Figure Drawing Lab

(1 Unit LAB) P/NP option
Recommended Prep: ART-19
Transfers to: UC and CSU

A course designed to provide individualized instruction within the classroom context of ART-19. Students will be encouraged to pursue independent directions in figure drawing.

Note: Student cannot enroll in the concurrently offered section of ART-19. Nude models are used in this course.

ART-57 Painting Lab

(1 Unit LAB) P/NP option
Recommended Prep: ART-22 or ART-23
Transfers to: UC and CSU

A course designed to provide individualized instruction within the classroom context of ART-22 or ART-23. Students will be encouraged to pursue independent directions in painting.

Note: Student cannot enroll in the concurrently offered section of ART-22 or ART-23.

ART-60 Introduction to Jewelry and Metalsmithing

(3 Units LEC/LAB) P/NP option
Recommended Prep: ART-10 and ART-11
Transfers to: CSU

An introduction to the design and production of jewelry and small-scale metal works, including studio safety. Processes explored include surface embellishment, fabrication, tool-making and stone setting, and their integration in student-created art work.

Note: Field trips may be required. Students must provide own transportation.

ART-60L Jewelry and Metalsmithing Lab

(1 Unit LAB) P/NP option
Prerequisite: ART-60 with a minimum grade of "C".
Transfers to: CSU

A course designed to provide individualized instruction

within the classroom context of Art 60. Students will be encouraged to pursue independent directions in jewelry and metalsmithing. Processes students further explore include casting and forming techniques for non-ferrous metals.

Note: Field trips may be required. Students must provide their own transportation.

ART-99A Museums and Galleries of California

(0.5-3 Units LEC/LAB) Grade only
Recommended Prep: Some knowledge of Art history will substantially enrich the experience of viewing and discussing the actual subject matter of the courses
Transfers to: CSU

A course designed to introduce students to contemporary art and professional museums and galleries in California with lectures, fieldtrips, and (depending on the selected topic) practical experience as well.

Note: Field trips may be required. Students must provide own transportation and related expenses.

ART-99C Firing Techniques

(2 Units LEC/LAB) P/NP option
Recommended Prep: ART-31A or ART-31B
Transfers to: CSU

A course presenting an opportunity for students of all levels to research a variety of traditional and experimental ceramic firing techniques. Course includes basic thermodynamics/kiln atmospheres, problem-solving specific firing needs, aesthetics of different firing techniques and ceramic process.

Note: Field trips may be required. Students must provide their own transportation.

ART-261 Introduction to Basic Weaving and Textile Processes

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A noncredit course offering training in textile weaving. Students will learn how to set up, operate, or tend machines that knit, loop, weave, or draw in textiles. Students will be introduced to a variety of textile processes such as weaving on portable, table and/or frame looms, card weaving and Inkle or bend weaving, and felt making. Other topics may include an introduction to basket weaving, material selection, design and form, color and dyeing of fiber, yarns, pattern drafting, tools, collection and use of materials, philosophy and tradition.

■ Astronomy [ASTRO]**ASTRO-10 Introduction to Astronomy**

(3 Units LEC) Grade only
Transfers to: UC and CSU

An overview of historical approaches to understanding the science of astronomy and our place in the universe. Students will explore light and its role in the transmission of information, telescopes, the formation of the solar system, the planets and moons and their potential for life, the sun, the evolutionary life cycle and death of stars, black holes, and the formation of the universe.

ASTRO-11 The Solar System and Space Exploration

(3 Units LEC) Grade only
Transfers to: UC and CSU

An examination of the geologic processes that have shaped the planets and moons of our solar system. This class will specifically look at the formation of the solar system, the history of space exploration, missions to the moon and Mars, and the search for life.

ASTRO-30 Teaching Science With Science Fiction

(2 Units LEC) Grade only
Transfers to: CSU

A class examining and exploring science through science fiction films. Students will critically examine science fiction movies, distinguishing fact from fiction. Students will also explore the curious phenomenon of how science fiction can become science fact. The class will also examine the underlying message about science and its application to a variety of social, cultural, and economic issues.

■ Automotive Technology [AT]**AT-12 Automotive Braking Systems**

(4 Units LEC/LAB) Grade only
Transfers to: CSU

A course covering theory and principles of modern braking systems. Hydraulic principles, coefficients of friction, and thermodynamics will be discussed. Diagnosis, repair, overhaul, and adjustment procedures of drum, disc/drum, and four-wheel disc systems will be emphasized. Anti-lock Braking Systems (ABS) diagnostics, servicing, and repair procedures will also be covered. The course will cover common domestic, import, and light truck vehicles only. The course is designed in conjunction with National Automotive Technicians Education Foundation (NATEF) standards and subsequently will prepare the student for the ASE Brakes Certification Examination.

AT-14 Manual Drivetrain and Axle

(4 Units LEC/LAB) Grade only
Transfers to: CSU

A course covering theory and principles of manual drivetrains and axles, clutches, driveshafts, half shafts, variable and constant velocity joints, differentials, rear wheel drive axle assemblies, all wheel drives, and four wheel drives. Gear types, ratios, compound ratios, and current noise, vibration, and harshness diagnostic routines will be discussed. Diagnosis, repair, overhaul, and adjustment procedures for common domestic, import, and light truck drivetrain components will be emphasized. The course is designed in conjunction with National Automotive Technicians Education Foundation (NATEF), standards and subsequently will prepare the student for the ASE Manual Drivetrain and Axle Certification Examination.

AT-16 Automotive Electrical Systems

(4 Units LEC/LAB) Grade only
Recommended Prep: MATH-120
Transfers to: CSU

A course covering theory and principles of automotive electrical systems. The course includes basic electrical theory, Ohm's Law, Kirchoff's Law, circuit types, electrical symbols and schematics, automotive batteries, charging systems, voltage regulation, starting systems, lighting systems, and various accessories. The laboratory portion of the course will place emphasis on diagnosis and testing techniques required to effectively determine the necessary action in an electrical system failure. The use of schematics, technical specifications, voltmeters, ohmmeters, ammeters, and other specialized testers will be required. The course is designed in conjunction with National Automotive Technician Education Foundation (NATEF) standards and subsequently will in part prepare the student for the ASE Electrical/Electronic Certification Examination.

AT-18 Automotive Engine Repair

(4 Units LEC/LAB) Grade only
Transfers to: CSU

A course covering four stroke cycle theory, engine

torque, horsepower, materials, and manufacturing processes as they relate to internal combustion powerplants used in production automobiles and light trucks. The theory, principles, and diagnosis of cooling systems, lubrication systems, and common engine mechanical failures will be emphasized. The laboratory portion of the course will focus on comprehensive engine testing, in-vehicle engine servicing, engine disassembly, precision measuring, and inspection of internal engine components. The course is designed in conjunction with National Automotive Technicians Education Foundation (NATEF) standards and subsequently will prepare the student for the ASE Engine Repair Certification Examination.

AT-20 Automotive Suspension and Steering

(4 Units LEC/LAB) Grade only
Transfers to: CSU

A course covering the theories and principles related to automotive steering and suspension systems. Topics will include tire and wheel balancing, alignment angles, steering system geometry and supplemental restraint systems (SRS). The laboratory portion of the course will include diagnosis, adjustment, repair, and replacement techniques for automotive and light truck suspension and steering components. Automotive alignment measuring and adjusting procedures will be emphasized. The course is designed in conjunction with National Automotive Technicians Education Foundation (NATEF) standards and subsequently will prepare the student for the ASE Suspension & Steering Certification Examination.

AT-22 Automotive Electronics

(4 Units LEC/LAB) Grade only
Prerequisite: AT-16
Transfers to: CSU

A course covering the principles of semiconductor theory, transistors, diodes, capacitance, inductance, inductive reactance, the motor principle, integrated circuits, and digital logic circuits. The course will place emphasis on the theory, diagnosis, and repair of modern automotive computer systems. Topics will include control modules, bus interface and related components or circuits. The laboratory portion of the course will require extensive use of electronic test equipment, circuit analysis, and diagnostic procedures common to modern automotive accessories and equipment. The course is designed in conjunction with National Automotive Technicians Education Foundation (NATEF) standards and subsequently will in part prepare the student for the ASE Electrical/Electronic Certification Examination.

AT-24 Engine Performance

(4 Units LEC/LAB) Grade only
Transfers to: CSU

A course covering theory and principles of engine performance related topics. Topics will include the internal combustion process, compression ratios, combustion efficiency, volumetric efficiency, airflow requirements, air-fuel ratios, fuel delivery systems, manifold, electronic ignition systems, oscilloscope waveform interpretation, ignition timing and advance strategies. The laboratory portion of the course will focus on diagnosis and repair of the following engine performance related problems; mechanical problems, computerized engine control systems, ignition systems, fuel delivery systems, and emission systems. The course is designed in conjunction with National Automotive Technicians Education Foundation (NATEF) standards and subsequently will in part prepare the student for the ASE Engine Performance Certification Examination.

AT-26 Automotive Air Conditioning and Heating

(4 Units LEC/LAB) Grade only
Recommended Prep: AT-16
Transfers to: CSU

A course covering theory and operation of automotive air conditioning and refrigeration systems. Topics will include the refrigeration cycle, evacuation principles, humidity, heat quantity, heat intensity, latent heat, heat transfer, automotive refrigerants, temperature pressure relationship, greenhouse gases, and proper handling and storage of refrigerants. The laboratory portion of the course will focus on the diagnosis and repair of heating and cooling systems, use of refrigerant recycling-reclaiming equipment, use of evacuation equipment, retrofitting, and environmentally sound refrigeration handling techniques. The course is designed in conjunction with National Automotive Technicians Education Foundation (NATEF) standards and subsequently will prepare the student for the ASE Air Conditioning and Heating Certification Examination.

AT-28 Advanced Engine Performance

(4 Units LEC/LAB) Grade only
Prerequisite: AT-24
Transfers to: CSU

A course covering advanced theory and principles of engine performance related topics. Topics will include fuel injection systems, electronic ignition, coil over plug (COP) systems, evaporative emission systems, exhaust gas recirculation, catalytic converters, computer controlled emission systems including OBD II compliant and CAN/BUS systems. The laboratory portion of the course will focus on diagnosis and repair of common driveability related problems. Five gas analysis, scantools, digital storage oscilloscopes (DSOs) graphing multimeters (GMM), and common electronic test equipment will be used extensively in the course. The course is designed in conjunction with National Automotive Technicians Education Foundation (NATEF) standards and subsequently will partially prepare the student for the ASE Engine Performance Certification Examination.

AT-30 Automatic Transmissions/Transaxles

(4 Units LEC/LAB) Grade only
Transfers to: CSU

A course covering theory and principles related to both hydraulic and electronically actuated automatic transmissions/transaxles. Topics will include positive and variable displacement pumps, torque converters, torque converter clutches, hydraulic valves, electronic shift solenoids, governors, and common compound planetary gear arrangements. The laboratory portion of the course will focus on diagnostic and overhaul procedures, in-vehicle testing, and bench testing of various components. The course is designed in conjunction with National Automotive Technicians Education Foundation (NATEF) standards and subsequently will prepare the student for the ASE Automatic Transmission Certification Examination.

■ Biology [BIOL]
BIOL-1 General Biology

(4 Units LEC/LAB) P/NP option
Recommended Prep: ENGL-150
Transfers to: UC and CSU

An introductory course in life science dealing with basic biological concepts including molecular and cell biology, metabolism, heredity, evolution, ecology, natural history, and biodiversity.

Note: This course is designed for non-science majors and nursing/health occupation students. Not open to students who have completed or who are currently

enrolled in BIOL-3.

BIOL-2 Microbiology

(4 Units LEC/LAB) Grade only
Prerequisite: BIOL-1 or BIOL-3
Corequisite: CHEM-1A or CHEM-2
Recommended Prep: ENGL-150 and MATH-120
Transfers to: UC and CSU

A study of microorganisms including anatomy, physiology, genetics, and ecological importance. Emphasis will be on the role of microorganisms in disease and the mechanisms of microbe/host interactions. Laboratory work emphasizes the importance of aseptic techniques, methods of microbial control, and procedures for isolating, culturing microbes, and identifying microorganisms.

BIOL-3 Fundamental Cell Biology

(4 Units LEC/LAB) Grade only
Prerequisite: ENGL-150 and MATH-120 and CHEM-1A or CHEM-2
Transfers to: UC and CSU
C-ID: BIOL 190

A course intended for biology majors covering principles and applications of prokaryotic and eukaryotic cell structure and function, biological molecules, homeostasis, cell reproduction and its controls, classical and molecular genetics, cell metabolism, and cellular communication.

BIOL-4 General Zoology

(4 Units LEC/LAB) Grade only
Prerequisite: (MATH-120 or MATH-194) and (ENGL-150 or ENGL-102 or ENGL-153)
Recommended Prep: CHEM-100
Transfers to: UC and CSU

A course intended for majors, covering the comparative structure, function and evolution of animal phyla and non-photosynthetic, single-celled, eukaryotic taxa. Topics include phylogeny, development, morphology, physiology, and behavior, as well as principles of evolution, mechanisms of evolutionary change, and speciation.

BIOL-5 General Botany

(4 Units LEC/LAB) Grade only
Prerequisite: (MATH-120 or MATH-194) and (ENGL-150 or ENGL-102 or ENGL-153)
Recommended Prep: (CHEM-100 or CHEM-1A) and BIOL-3
Transfers to: UC and CSU

A comparative study of plant, fungal, and algal structure and function, with additional studies of developmental biology, phylogeny/systematics, plant ecology, and conservation biology.

Note: This course is intended for biology majors.

BIOL-6 Human Anatomy

(4 Units LEC/LAB) Grade only
Prerequisite: ENGL-150 and credit for or enrollment in BIOL-1
Transfers to: UC and CSU
C-ID: BIOL 110B

An introduction to human anatomy. The course includes the study of the gross and microscopic structure of all of the organ systems of the human body with special emphasis on the relation between structure and function. Laboratory work includes the study of human cadavers.

BIOL-7 Human Physiology

(4 Units LEC/LAB) Grade only
Prerequisite: BIOL-1 and BIOL-6 and (ENGL-150 or ENGL-102 or ENGL-153) and (CHEM-1A or CHEM-2)
Transfers to: UC and CSU

An organ system approach to the study of human physiology. Special emphasis is given to molecular and cellular mechanisms responsible for homeosta-

sis. Labs include experiments on human subjects as well as computerized simulations of complex physiological processes.

Note: This course is required for application to the CR nursing program.

BIOL-8 Human Biology

(4 Units LEC/LAB) Grade only
Prerequisite: ENGL-150
Transfers to: UC and CSU

A survey of human biology focusing on concepts in cell biology, genetics, anatomy, physiology, disease, and evolution as they relate to the human body. Students apply and evaluate these concepts in laboratory activities that include microscopy, experimentation, and dissection.

Note: This course is specifically designed for students in the Licensed Vocational Nursing program and also satisfies life science general education requirements at CR and CSU. Students who have completed BIOL-1 should not take this course unless they are planning on entering the LVN program. Also, students who have successfully completed both BIOL-6 and BIOL-7 are not eligible to enroll in this course.

BIOL-15 Marine Biology

(4 Units LEC/LAB) P/NP option
Recommended Prep: ENGL-150
Transfers to: UC and CSU

An introduction to ocean habitats and marine life. Topics covered include physical properties that define marine habitats, the diversity and ecology of marine organisms, and marine resource use and conservation. Labs and field trips focus on local habitats and the identification of local species.

Note: This course includes required field trips to local marine habitats. The College does not provide transportation.

BIOL-18 Natural History of North Coast Mammals

(3 Units LEC/LAB) P/NP option
Recommended Prep: ENGL-150
Transfers to: CSU

An introduction to the natural history of North Coast mammals. Topics include taxonomy and evolution, habitat ecology, behavior, and field identification.

Note: Field trips are required and the College does not provide transportation.

BIOL-20 Natural History

(4 Units LEC/LAB) P/NP option
Prerequisite: ENGL-150
Transfers to: CSU

An introduction for non-science majors to the biotic communities of California and the identification, ecology and life history of the organisms living there. Coverage includes principles of ecology and evolution, techniques for studying organisms in the wild, and methods of recording field data.

Note: Field trips are required. The College does not provide transportation. UC and CSU transferability requires a grade.

BIOL-21 Mushrooms of the North Coast

(3 Units LEC/LAB) P/NP option
Recommended Prep: ENGL-150
Transfers to: UC and CSU

The study of the identification and ecology of mushrooms. Emphasis placed on keying species to genus and on field identification of the more common edible and toxic species of the north coast.

Note: Field trips are required and the College does not provide transportation.

BIOL-27 Biology of Marine Mammals

(3 Units LEC) P/NP option
Prerequisite: ENGL-150
Transfers to: UC and CSU

An introduction to the biology of marine mammals emphasizing anatomy, physiology, behavior, population ecology, evolution, and conservation.

BIOL-40 Independent Study - Cadaver Prosection

(1 Unit IND) Grade Only
Pre-requisite: BIOL-6
Transfers to: CSU

An advanced course for outstanding anatomy students wishing to prepare demonstration dissections of human cadavers. Students work closely with faculty to learn dissection technique, prepare demonstration dissections, present their work to current anatomy students, and write a research paper on an anatomical subject.

Note: Instructor permission is required.

BIOL-41 Independent Study - Natural History Museum Curation

(1 Unit IND) P/NP option
Repeatability: Maximum of three enrollments
Transfers to: CSU

An advanced project-based course for biology students wishing to learn skills associated with natural history museum specimen curation. Students work with faculty to define a project that may include specimen preparation, maintenance and repair, database design and data entry, and/or creation of public displays and interpretive materials. Students must have some background in zoology or botany, and consent of the supervising instructor.

BIOL-42 Peer Tutoring in the Life Sciences - Anatomy

(1 Unit IND) P/NP option
Prerequisite: BIOL-6
Transfers to: CSU

An advanced course for biology students wishing to combine review of human anatomy with an opportunity to tutor peers in a classroom setting. Students receive training in effective communication and appropriate behavior in the classroom, work side-by-side with instructors in the classroom, and hold periodic study/review sessions with their peers. Students learn by teaching, deepening and clarifying their understanding of the subject matter beyond what they were able to achieve the first time through the course. Prior enrollment in the course to be tutored is required.

BIOL-43 Peer Tutoring in the Life Sciences - Zoology

(1 Unit IND) P/NP option
Prerequisite: BIOL-4
Transfers to: CSU

An advanced course for biology students wishing to combine review of general zoology with an opportunity to tutor peers in a classroom setting. Students receive training in effective communication and appropriate behavior in the classroom, work side-by-side with instructors in the classroom, and hold periodic study/ review sessions with their peers. Students learn by teaching, deepening and clarifying their understanding of the subject matter beyond what they were able to achieve the first time through the course. Prior enrollment in the course to be tutored is required.

BIOL-44 Peer Tutoring in the Life Sciences - Botany

(1 Unit IND) P/NP option
Prerequisite: BIOL-5
Transfers to: CSU

An advanced course for biology students wishing to combine review of general botany with an opportunity to tutor peers in a classroom setting. Students receive training in effective communication and appropriate behavior in the classroom, work side-by-side with instructors in the classroom, and hold periodic study/ review sessions with their peers. Students learn by teaching, deepening and clarifying their understanding of the subject matter beyond what they were able to achieve the first time through the course. Prior enrollment in the course to be tutored is required.

BIOL-45 Peer Tutoring in the Life Sciences - Physiology

(1 Unit IND) P/NP option
Prerequisite: BIOL-7
Transfers to: CSU

An advanced course for biology students wishing to combine review of human physiology with an opportunity to tutor peers in a classroom setting. Students receive training in effective communication and appropriate behavior in the classroom, work side-by-side with instructors in the classroom, and hold periodic study/ review sessions with their peers. Students learn by teaching, deepening and clarifying their understanding of the subject matter beyond what they were able to achieve the first time through the course. Prior enrollment in the course to be tutored is required.

■ Business [BUS]

BUS-1A Financial Accounting

(4 Units LEC/LAB) P/NP option
Prerequisite: MATH-380
Recommended Prep: CIS-1 and ENGL-150
Transfers to: UC and CSU
C-ID: ACCT 110

A study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the financial statements, and statement analysis. This course include issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics.

BUS-1B Managerial Accounting

(4 Units LEC/LAB) P/NP option
Prerequisite: BUS-1A
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: ACCT 120

A study of how managers use accounting information in decision-making, planning, directing operations and controlling. Focuses on cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis. Includes issues relating to cost systems, cost control, profit planning, and performance analysis in manufacturing and service environments.

BUS-4 Advanced Computerized Bookkeeping

(3 Units LEC/LAB) P/NP option
Prerequisite: BUS-1A or BUS-180
Recommended Prep: CIS-1 or BT-51
Transfers to: CSU

A study of advanced bookkeeping procedures utilizing common accounting software. The student will learn to analyze and post complex business transactions in order to create financial and tax reports and manage payroll for small businesses.

BUS-10 Introduction to Business

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150 (or equivalent) or appropriate reading and writing scores on placement exam.
 Transfers to: UC and CSU
 C-ID: BUS 110

An introduction to the trends and opportunities in today's dynamic global business environment surveying economics, global markets, social responsibility, ownership forms, entrepreneurship, management organization, marketing, accounting and financial management.

BUS-18 Business Law

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU
 C-ID: BUS 125

Fundamental legal principles pertaining to business transactions. This course is an introduction to the legal process in a business setting. Topics include sources of law and ethics, contracts, torts, agency, criminal law, business organizations, and judicial and administrative processes.

BUS-34 Introduction to Personal Finance

(3 Units LEC) P/NP Option
 Recommended Prep: (ENGL-150 or ENGL-102 or ENGL-153) and CIS-1 and (MATH-120 or MATH-194)
 Transfers to: CSU

An introduction to the basics of personal financial literacy in diverse cultural settings. Topics will include managing income, expenses, credit and insurance. In the area of investments, topics will include financial markets and assets, basic asset valuation and retirement planning.

BUS-35 Strategic Marketing

(4 Units LEC) Grade only
 Recommended Prep: BUS-10 and ENGL-150
 Transfers to: CSU

An overview of the strategic marketing process, including environmental scanning, industry analysis, market analysis, target market definition, marketing strategy creation, financial budgeting and projections. The student will learn the strategic marketing process by creating a professional marketing plan supported by both primary and secondary data sources. Emphasis will be placed on understanding the wants and needs of consumers, differentiating brand identity from competitors, and creating marketing strategies that leverage the competitive advantage of your organization.

BUS-40 Independent Study

(0.5-3Units LAB) Grade only
 Transfers to: CSU

Independent research and special projects in Business. Specific projects to be determined in consultation with instructor.

Note: All independent study projects must be approved by instructor and an approved independent study contract must be on file before the independent study section is created.

BUS-42 Business Cooperative Work Experience Education

(1-3 Units LAB) P/NP only
 Repeatability: Maximum of three enrollments
 Transfers to: CSU

A course designed to assist students in planning and accomplishing meaningful learning objectives relevant to Business occupations, certificates, or degrees at their places of for-profit, nonprofit, or governmental employment or training. To participate in this program students' jobs must be related to their

career goals or college course work. Variable 0.5 to 8.0 units based upon 37.5-600 total work "lab" hours per semester, repeatable 2 times.

Note: Students must meet with the Cooperative Work Experience (CWE) Coordinator before they can be enrolled in any CWE courses. During fall and spring, students must be enrolled in at least 7 units (including CWE) to enroll in CWE. If enrolling in the summer, student must have been enrolled in at least 12 units (including CWE) in the previous spring semester. Students must take primary responsibility in finding a work experience opportunity and are strongly advised to find such an opportunity before enrolling in the class. Some employers or programs may require fingerprinting, drug testing, and/or background checks. Students should be advised that a maximum of 9 units can be applied toward a degree.

BUS-52 Business Communications

(3 Units LEC) Grade only
 Prerequisite: ENGL-150
 Recommended Prep: CIS-100 or equivalent
 Transfers to: CSU
 C-ID: BUS 115

A course in written and oral communications for the business environment. Students analyze various business situations, producing reasoned written or oral responses. Written communications focus on the composition of effective business letters, memorandums, e-mail messages, and short reports. Oral communications include small group participation, oral reports, and electronic presentations.

BUS-68 Introduction to Management

(3 Units LEC) Grade only
 Recommended Prep: BUS-10 and ENGL-150
 Transfers to: CSU

An introduction to modern management theory. Key topics include the role and function of a manager, organizational design and structure, strategic and tactical planning, communication strategies, human resource management, diversity in the workplace, ethics and social responsibility, motivational theories, and management of change.

BUS-69 Business Plan Development

(4 Units LEC/LAB) Grade only
 Recommended Prep: BUS-10 and ENGL-150
 Transfers to: CSU

An overview of the strategic business plan development process, including analysis of the marketing, operations, management, technology and finance functions of a new business venture. The student will learn the strategic business planning process by creating a professional business plan supported by robust financial projections. Emphasis will be placed on the development of a profitable, differentiated and sustainable business model.

BUS-70A Special Projects in Business

(4 Units LEC/LAB) P/NP option
 Prerequisite: BUS-10 or BUS-69 or ECON-1 or ECON-10
 Recommended Prep: CIS-1 and ENGL-150
 Transfers to: CSU

A course designed to give students an opportunity to learn how to apply their business and economics skills to a real-world context of consulting or business development.

BUS-70B Leadership in Business Projects

(4 Units LEC/LAB) P/NP option
 Prerequisite: BUS-70A
 Recommended Prep: CIS-1 and ENGL-150
 Transfers to: CSU

A second-semester course designed to give students an opportunity to learn how to apply their business and economics skills to a real-world context of con-

sulting or business development. Students will take on a leadership role in generating new learning opportunities and mentoring first-semester students.

BUS-180 Introduction to Bookkeeping

(3 Units LEC/LAB) P/NP option
 Recommended Prep: co-enrollment in MATH-102 or MATH-194

A course introducing the concepts of bookkeeping. The correct posting of business transactions and the creation of financial reports and payroll for small businesses will be emphasized.

BUS-280 Income Tax Preparation

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments
 An entry-level course in preparing basic Federal and State income tax returns.

■ Business Technology [BT]
BT-16 Word Processing I

(4 Units LEC/LAB) P/NP option
 Recommended Prep: CIS-100 and BT-110 or BT-111 or BT-112
 Transfers to: CSU

An introduction to word processing with hands-on experience, including character, paragraph, and page formatting; creating, editing, saving, and printing letters, memos, and other short documents with an introduction to proofing using spelling, grammar, and style features.

BT-17 Word Processing II

(4 Units LEC/LAB) P/NP option
 Recommended Prep: BT-16
 Transfers to: CSU

An intermediate to advanced Word processing course with hands-on experience creating business documents, including tables, forms, brochures, and newsletters and utilizing Word features such as newspaper columns, styles, themes, cover pages, headers and footers, pagination, templates, merges, and macros.

BT-50 Introduction to Database Management Systems

(4 Units LEC/LAB) Grade only
 Recommended Prep: CIS-1
 Transfers to: CSU

A course that provides the students with an introduction to the core concepts in data and information management. It is centered around the core skills of identifying organizational information requirements, modeling them using conceptual data modeling techniques, converting the conceptual data models into relational data models and verifying its structural characteristics with normalization techniques, and implementing and utilizing a relational database using an industrial-strength database management system. The course will also include coverage of basic database administration tasks and key concepts of data quality and data security. In addition to developing database applications, the course helps the students understand how large-scale packaged systems are highly dependent on the use of Database Management Systems (DBMSs). Building on the transactional database understanding, the course provides an introduction to data and information management technologies that provide decision support capabilities under the broad business intelligence umbrella.

BT-51 Spreadsheet Applications

(4 Units LEC/LAB) Grade only
Recommended Prep: CIS-1
Transfers to: CSU

An intermediate to advanced level course to develop and refine students' understanding of electronic spreadsheet concepts, applications, and integration with other applications (word processing and database). Students will use hardware, software, and documentation to complete lab exercises and projects.

BT-53A Beginning Technical and Professional Office Procedures

(3 Units LEC/LAB) Grade only
Recommended Prep: BT-16 and BT-111 and ENGL-150
Transfers to: CSU

An introductory course in entry-level office tasks including mail receipting, data entry, filing, supplies inventorying, meeting document preparation, telephone and calendaring procedures. Emphasis will be set on application of learned technical skills, setting priorities, and practicing time management.

BT-53B Advanced Technical and Professional Office Procedures

(3 Units LEC/LAB) Grade only
Recommended Prep: BT-16 and BT-111 and ENGL-150
Transfers to: CSU

A course in advanced preparation for the administrative professional occupation, including budget preparation, proprietary information systems, strategic planning, development of meeting documents, and the importance of workplace ethics and effective communication in diverse environments. Students deal with concepts relevant to resolving issues in business, emphasizing the use of reasoning and analytical skills, team concepts, ethics, diversity, and their application to business decisions.

BT-111 Keyboarding I

(3 Units LEC/LAB) P/NP option

A beginning course in keyboarding using the touch method. Emphasis on acquiring basic keyboarding skills and on producing documents (reports, letters, tables, etc.) using word processing software as preparation for learning office production skills.

BT-112 Keyboarding Skill Development

(1 Unit LAB) P/NP only
Recommended Prep: BT-111

A course designed to help students improve their keyboarding skills as well as develop 10-key keypad speed and accuracy. Specific drills will be taught to correct individual keyboarding deficiencies. Students at any level will be able to continue their development of keyboard control through repetitive typing of specific drills designed to improve both speed and accuracy.
Note: Students should be able to touch type at 25 wpm to enroll in this class.

Chemistry [CHEM]**CHEM-1A General Chemistry**

(5 Units LEC/LAB) Grade only
Prerequisite: MATH-120 and CHEM-100 or one year of high school chemistry
Transfers to: UC and CSU
C-ID: CHEM 110 (CHEM 120S if taken with CHEM-1B)

The first semester of a one-year course in chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, pre-medicine), mathematics, and engineering. Covers topics such as nomenclature, atomic structure, quantum theory, periodic properties, chemical reactions, stoichiometry, gas laws, molecular structure and bonding, states of matter, solutions, nuclear chemistry, and organic

chemistry.

CHEM-1B General Chemistry

(5 Units LEC/LAB) Grade only
Prerequisite: CHEM-1A
Transfers to: UC and CSU
C-ID: CHEM 120S (if taken with 1A)

The second semester of a one-year course in chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, pre-medicine), mathematics, and engineering. Covers topics such as intermolecular forces, physical states, solutions, kinetics, nuclear chemistry, equilibrium, acids and bases, thermodynamics, electrochemistry, coordination chemistry, and descriptive chemistry of the elements.

CHEM-2 Introduction to Chemistry

(5 Units LEC/LAB) P/NP option
Prerequisite: MATH-380
Transfers to: UC and CSU
C-ID: CHEM 101

An introduction to basic chemical principles. Serves as a beginning course for allied science students, including nursing, and as general education. Students learn to classify matter and to describe physical and chemical phenomena such as atomic structure, compounds, energy, solutions, acids and bases, nuclear chemistry, and organic chemistry, both qualitatively and quantitatively, at an introductory level. Includes a coordinated lab experience.

Note: Safety protection for eyes and scientific calculator required.

CHEM-3 Introduction to Organic Chemistry

(4 Units LEC/LAB) Grade only
Prerequisite: CHEM-2
Transfers to: UC and CSU
C-ID: CHEM 102

This course is a survey of organic and biochemistry for nursing majors and other allied health fields. Topics include general organic chemistry and biological chemistry as they apply to living systems. The laboratory component will support the course topics, including qualitative and quantitative experiments, and analysis of data.

CHEM-8 Brief Organic Chemistry

(5 Units LEC/LAB) Grade only
Prerequisite: CHEM-1A
Transfers to: UC and CSU

A survey of important classes of organic compounds with emphasis on materials of interest to students of the biological sciences, pre-professional programs and related areas. The laboratory work introduces the fundamental techniques using both macro and micro scale equipment for the purification, synthesis and identification of organic compounds, while illustrating the basic chemistry of the functional groups.
Note: Safety protection for eyes and scientific calculator required.

CHEM-10 Chemistry and Society

(3 Units LEC) P/NP option
Prerequisite: MATH-380
Recommended Prep: ENGL-150
Transfers to: UC and CSU

An introductory course in basic concepts of chemistry that requires analyses of the socio-cultural contexts within which chemistry plays a central role. The course is designed to provide a general educational exposure to the physical sciences, specifically chemistry, and is not recommended for science majors.

CHEM-100 Preparation for General Chemistry

(4 Units LEC) P/NP option
Prerequisite: MATH -380

A brief introduction to the principles of chemistry

and the application of mathematics to chemistry. CHEM-100 is intended to prepare students for General Chemistry (CHEM-1A) who did not take high school chemistry or whose prior chemistry is outdated.
Note: A scientific calculator is required.

Cinema [CINE]**CINE-1 Cinema History: From Its Origins to the Coming of Sound**

(3 Units LEC) Grade only
Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153
Transfers to: UC and CSU

An introduction to the study of film history from cinema's origins in the 1890s through the widespread transition to sound-on-film technology. Students will consider the historical, production, distribution, exhibition, cultural, and aesthetic contexts of varying cinematic movements from several different parts of the western world. The bulk of this course centers on silent cinema, with attention paid at the end of the course to the development of sound.

CINE-2 Cinema History - From the Coming of Sound to the Present

(3 Units LEC) Grade only
Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153
Transfers to: UC and CSU

An introduction to the study of film history from just after the coming of sound to the present. Students will be required to consider the historical, production, distribution, exhibition, cultural, and aesthetic contexts of varying cinematic movements from the United States and Western Europe.

CINE-3 The Cinemas of Latin America, Asia, and Africa

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU

A survey course of film history outside of the western world, specifically, the films of Asia, the Middle East, Africa, South America, Mexico and Cuba. We will examine the historical, social, political and film industry environments in which each film was created, and we will identify recurring themes, motifs, techniques, and aesthetic choices that contribute to a regional or national style.

Communication Studies [COMM]**COMM-1 Public Speaking**

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: COMM 110

An introduction to the fundamental theories and techniques of public speaking stressing audience analysis, logical organization, and support of ideas. Students will analyze and research issues and will construct and deliver informative and persuasive speeches on topics of current concern.

COMM-2 Introduction to Public Speaking

(3 Units LEC) Grade only
Recommended Prep: ENGL-150 or ENGL 102
Transfers to: CSU

An introduction to the discipline of Communication Studies including history, theories, methods, and specializations of human communication as an academic field of study.

COMM-3 Oral Interpretation of Literature

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150 or ENGL 102
 Transfers to: CSU

Introduction to performance studies through the oral interpretation of literature, including Western and Non-Western forms; examination and application of theoretical issues and historical developments to current performance trends in solo, duo, and interpreters' theater; focus on audience analysis, selection, and thematic analysis of literature, discussion, and application of vocal and physiological delivery techniques, program performance, and post-performance evaluation.

COMM-5 Introduction to Mass Communication

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU
 C-ID: JOUR 100

Survey of mass communication and the interrelationships of media and society including history, structure, and trends in a digital age. Discussion of theories and effects, economics, technology, law and ethics, global media, media literacy, and social issues, including gender and cultural diversity.

COMM-6 Small Group Communication

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153
 Transfers to: UC and CSU
 C-ID: COMM 140

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.

COMM-7 Interpersonal Communication

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150 or ENGL-102
 Transfers to: UC and CSU
 C-ID: COMM 130

An introductory survey communication course designed to increase interpersonal awareness and effectiveness in person-to-person communication settings. Students will read, discuss, and apply concepts and principles while developing skills dealing with the verbal and nonverbal transactions that occur in relationships.

COMM-8 Intercultural Communication

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU
 C-ID: COMM 150

Introduction to intercultural communication in domestic and/or global contexts. Influence of cultures, languages, and social patterns on the interaction of members within a group and with members of different ethnic and cultural groups. Appreciation and comparison of communication of diverse groups within the larger context of American culture.

■ Computer Electronics Technology [CET]
CET-10 Survey of Electronics

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150 and MATH-120
 Transfers to: UC and CSU

An introductory course in electricity and electronics. Students will learn basic components of physics, chemistry, and mathematical analysis, as needed. Topics include methods for generating and storing electricity, design and selection of energy efficient

devices, and the impact of electricity and electronics on society and the environment.

Note: Lecture only. Students who want additional lab time must enroll in CET-10L.

CET-10L Survey of Electronics Lab

(1 Unit LAB) Grade only
 Prerequisite: CET-10
 Recommended Prep: MATH-120
 Transfers to: UC and CSU

An introductory laboratory course covering electrical and electronic devices, circuits, systems, and test equipment. Instruments used in the study of basic electronics are discussed, demonstrated, and used. Emphasis is placed on safety, interpretation of schematic diagrams, and familiarization with electronic components.

CET-40 Independent Study in Computer Electronics Technology

(0.5-2 Unit IND) Grade only
 Transfers to: CSU
 Individual research and special projects in Computer Electronics Technology. Specific projects will be determined upon consultation with instructor.
 Note: Students taking an independent study course must have an approved contract on file.

■ Computer Information Systems [CIS]
CIS-1 Computer Information Systems

(4 Units LEC/LAB) Grade only
 Recommended Prep: CIS-100 and ENGL-150 and MATH-376
 Transfers to: UC and CSU
 C-ID: BUS 140 or ITIS 120

An intermediate-level course focusing on the principles and applications of computers, including their role in business and society, the fundamentals of information systems, database management systems, networking, e-commerce, ethics and security, and computer systems hardware and software components.

CIS-12 Programming Fundamentals

(4 Units LEC/LAB) Grade only
 Recommended Prep: CIS-1 and MATH-380
 Transfers to: UC and CSU

An introduction to the fundamental concepts and models of application development including the basic concepts of program design, data structures, programming, problem solving, programming logic, and fundamental design techniques for event-driven programs. Hands-on experience with a modern application programming language and development platform.

CIS-18 Object Oriented Programming - Java

(4 Units LEC/LAB) Grade only
 Recommended Prep: CIS-12
 Transfers to: UC and CSU
 C-ID: COMP 122

An intermediate-level course in object-oriented programming (OOP). Students will use object-oriented and event-driven concepts to design, implement, and test programs written using the Java programming language. The course includes concepts common to all programming languages and those specific to event-driven languages.

CIS-30 CCNA: Computer Network Fundamentals

(4 Units LEC/LAB) Grade only
 Recommended Prep: CIS-1 and CIS-98
 Transfers to: CSU
 C-ID: ITIS 150

A study of the architecture, functions, components, and models of computer networks in a hands-on lab setting. The principles and structure of IP (Internet Protocol) addressing and the fundamentals of Ether-

net, media, and operations are introduced to provide a foundation for further study of computer networks and to prepare students for Cisco certification.

CIS-31 Systems & Network Administration

(4 Units LEC/LAB) Grade only
 Recommended Prep: CIS-30
 Transfers to: CSU
 C-ID: ITIS 155

An applied introductory course on the installation, maintenance, troubleshooting and support of server hardware and software technologies. Students will become familiar with environmental issues; understand and comply with disaster recovery and security procedures; become familiar with industry terminology and concepts; understand server roles and interaction within the overall computing environment.

CIS-33 CCNA: Scaling and Connecting Networks

(4 Units LEC/LAB) Grade only
 Prerequisite: CIS-30
 Transfers to: CSU

A study of the wide area network technologies and network services, and the architecture, components, and operations of routers and switches in a complex network. This is the second in a two-course series that prepares students for certification as a Cisco Certified Network Associate (CCNA)

CIS-35 Introduction to Information Systems Security

(4 Units LEC/LAB) Grade only
 Recommended Prep: CIS-30 and CIS-31
 Transfers to: CSU
 C-ID: ITIS 160

An introduction to the fundamental principles and topics of Information Technology Security and Risk Management at the organizational level. It addresses hardware, software, processes, communications, applications, and policies and procedures with respect to organizational Cybersecurity and Risk Management. This course prepares students for the CompTIA Security+ certification exam.

CIS-37 Principles of Ethical Hacking

(4 Units LEC/LAB) Grade only
 Recommended Prep: CIS-35
 Transfers to: CSU

This course introduces the student to the various methodologies for attacking a network. Students will be introduced to the concepts, principles, and techniques, supplemented by hands-on exercises, for attacking and disabling a network within the context of properly securing a network. The course will emphasize network attack methodologies with the emphasis on student use of network attack techniques and tools and appropriate defenses and countermeasures. Students will experience a hands-on practical approach to penetration testing measures and ethical hacking.

CIS-42 Cooperative Education Work Experience in Computer Information Systems

(0.5-8 Units LAB) P/NP only
 Repeatability: Maximum of three enrollments
 Transfers to: CSU

A course designed to assist students in accomplishing learning objectives directly related to their Computer Information System career goals or college course work in a supervised work environment that extends classroom-based occupational learning to an on-the-job learning situation. To participate in this course, the student's placement and course objectives must be related to their career goals or college course work.

Note: Students must meet with the Cooperative Work Experience (CWE) Coordinator before they can be enrolled in CIS-42. During fall and spring, students must be enrolled in at least 7 units

(including CWE) to enroll in CWE. If enrolling in the summer, student must have been enrolled in at least 12 units (including CWE) in the previous spring semester. Students must take primary responsibility in finding a work experience opportunity and are strongly advised to find such an opportunity before enrolling in the class. Some employers or programs may require fingerprinting, drug testing, and/or background checks. Students should be advised that a maximum of 9 units can be applied toward a degree. Students may enroll a total of 3 times (repeatable twice). Variable 0.5 to 8.0 units, based on 37.5-600 work lab hours per semester.

CIS-98 PC Computer Repair and Maintenance

(4 Units LEC/LAB) Grade only
Recommended Prep: CIS-1
Transfers to: CSU
C-ID: ITIS 110

A practical study of the repair and maintenance of PCs at the component level as well as concepts such as security, networking and the responsibilities of an ICT professional. This course prepares students for CompTIA's A+ certification exam.

CIS-100 Basic Computer Skills

(3 Units LEC/LAB) P/NP only

An introduction to basic college-level computing skills including file and folder management, local- and cloud-based apps, and online learning in a lecture/lab setting. Topics include basic hardware operations (keyboarding, mouse, monitor, printer, disk storage), graphical user interface (GUI) operating systems, electronic file management, the Internet, email, word processing, spreadsheets, and electronic presentations with emphasis on e-Learning and learning management systems. Students who successfully complete the course will be well-prepared for taking online courses.

CIS-210 Beginning Computer Skills

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A course designed to assist students and strengthen student computer skills needed in the 21st Century workplace. This lab will provide individualized instruction in a self-paced environment. Coursework specific to a student's area of study will be evaluated.

■ Construction Technology [CT]

CT-15 Carpentry Techniques for Existing Buildings

(3 Units LEC/LAB) Grade only
Transfers to: CSU

Hands-on carpentry training using existing buildings as a field school. A comprehensive study of repairing and rehabbing existing and historic buildings. This course highlights sustainable building by teaching trade skills that will prepare the student for repair and preservation specialist jobs to reuse existing buildings.

Note: Personal safety equipment and appropriate work clothes will be required of student. Personal carpentry tools may be used.

CT-16 Architectural Millwork

(3 Units LEC/LAB) Grade only
Recommended Prep: CT-21B
Transfers to: CSU

Practice of traditional woodworking skills and modern procedures required to produce new wood molding, and conserve historic millwork. Students will learn the safe use of woodworking equipment, hand and power tools. A course in a sustainable building series that will prepare students for reusing existing materials to accomplish restoration and reproduction

of existing building millwork.

Note: Field trips will be a component of this course and the College does not provide transportation. Basic shop use and machine tool training are recommended.

CT-21A Survey of Wood Technology

(3 Units LEC/LAB) P/NP option
Transfers to: CSU

An introductory woodworking course with lectures and labs. Students will receive instruction in project planning, wood technology, wood finishing, woodworking related literature and the safe use and operation of hand and power woodworking tools. Project work includes assigned and free-choice projects. This course is required for all Construction Technology degrees and certificates at College of the Redwoods.

CT-21B Intermediate Wood Technology

(3 Units LEC/LAB) P/NP option
Prerequisite: CT-21A
Transfers to: CSU

An intermediate level woodworking course. Project-based instruction includes the set-up and use of woodworking hand tools and machinery, furniture joinery, wood turning, veneering, surface preparation and wood finishing.

CT-25 OSHA Construction Safety

(2 Units LEC) P/NP option
Recommended Prep: CT-21A or CT-57A or CT-78A or CT-90
Transfers to: CSU

A course in construction industry safety. Using specified OSHA 30-Hour training guidelines, students will receive instruction in construction safety and health principles aimed at preventing injury at the workplace. Special emphasis is placed on required OSHA topics that include but are not limited to: OSH Act, Safety Programs, Electrocutation, Fall Protection, Personal Protective Equipment, Stairs, Scaffolds and Ladders, Excavations and Confined Space Entry.
Note: Students that successfully complete this course receive the OSHA 30-Hour Construction Safety and Health card.

CT-30 Solar Thermal Design and Installation

(1 Unit LEC/LAB) Grade only
Transfers to: CSU

An introduction to the design and installation of solar hot water systems. Students in this course will become familiar with solar thermal equipment, terminology, installation and the integration of solar thermal components.

Note: Students in this course will need to provide sturdy footwear, a tool belt, and a small set of electricians' tools.

CT-31 Introduction to Solar Thermal Systems

(3 Units LEC) Grade only
Recommended Prep: CT-78A
Transfers to: CSU

A course designed to provide students with essential information to work with solar thermal systems including system design and sizing residential projects, system components, estimating installation costs and return on investment, system maintenance and building codes.

Note: Field trips are required and the College does not provide transportation.

CT-32 Photo-Voltaic System Design and Installation

(1 Unit LEC/LAB) Grade only
Transfers to: CSU

A basic overview of the design and installation of an utility-intertie Photo-voltaic system. Successful completion of this course will provide the student with the entry level skills of a Photo-voltaic system installer.

CT-33 Introduction to Solar Photovoltaic Systems

(3 Units LEC) Grade only
Recommended Prep: CT-78A
Transfers to: CSU

A course designed to provide students with essential information and training to work with residential solar photovoltaic systems including providing fundamentals of AC/DC, the National Electric Code, and principles of a residential solar photovoltaic systems. The course content is aligned with the North American Board for Certified Energy Practitioners NABCEP) PV Entry Level Exam. Students will be given the opportunity to sit for the NABCEP exam at the conclusion of the course.

Note: Field trips are required and the College does not provide transportation.

CT-40 Independent Study in Construction Technology

(0.5-2 Units IND) P/NP Option

Individual research and special projects in Construction Technology. Specific projects will be determined upon consultation with instructor. Laboratory hours will be arranged (minimum 1.5 hours/week). Variable .5 - 2.0 units, 1.5 - 6 lab hours per week.

Note: Student taking an independent study course must have an approved contract on file.

CT-42 Cooperative Education Work Experience Construction Technology

(0.5-8 Units LAB) P/NP only
Repeatability: Maximum of three enrollments
Transfers to: CSU

A course designed to assist students in accomplishing learning objectives directly related to their Construction Technology career goals or college course work in a supervised work environment that extends classroom-based occupational learning to an on-the-job learning situation. To participate in this course, the student's placement and course objectives must be related to their career goals or college course work.

Note: Students must meet with the Cooperative Work Experience (CWE) Coordinator before they can be enrolled in CT-42. During fall and spring, students must be enrolled in at least 7 units (including CWE) to enroll in CWE. If enrolling in the summer, student must have been enrolled in at least 12 units (including CWE) in the previous spring semester. Students must take primary responsibility in finding a work experience opportunity and are strongly advised to find such an opportunity before enrolling in the class. Some employers or programs may require fingerprinting, drug testing, and/or background checks. Students should be advised that a maximum of 9 units can be applied toward a degree. Students may enroll a total of 3 times (repeatable twice). Variable 0.5 to 8.0 units, based on 37.5-600 work lab hours per semester.

CT-50 Construction Estimating

(4 Units LEC) Grade only
Recommended Prep: CT-80
Transfers to: CSU

An introduction to the techniques and methods of building construction estimating. This course includes a study of employer's cost of labor including payroll, taxes, insurance and overhead. Worker hours and material are computed for each component needed to complete the total building. This class will start with manual estimating skills and then progress to

computer estimating.

Note: Recommended prep or building construction experience is needed to be successful.

CT-55 Advanced Wood Technology

(2 Units LAB) Grade only

Prerequisite: CT-21B

Transfers to: CSU

A woodworking lab providing students the opportunity to hone the skills and techniques acquired in CT-21A and CT-21B. Individual project work and instruction will be determined through consultation between student and instructor.

CT-56 Construction Layout

(2.5 Units LEC/LAB) Grade only

Recommended Prep: CT-80 and MATH-120 or MATH-194
Transfers to: CSU

An intermediate level course that teaches layout techniques for a residential construction project. This course will cover the use of leveling instruments and tools used in laying out buildings and establishing grade elevations. Students will also learn to layout joists, walls, roof rafters, and basic stair units. Hands-on lab experience will strengthen lecture topics. The study of applied construction math is a component of this course.

Note: Due to the technical nature of this course the recommended prep or building construction experience is needed to be successful.

CT-57A Cabinetmaking and Millwork I

(3 Units LEC/LAB) Grade only

Transfers to: CSU

A course in beginning cabinetmaking for residential applications. Topics include the safe use of power equipment and hand tools, cabinetmaking methods, cabinet layout, joinery, casework, woodworking industry standards, materials, and machinery specific to cabinet construction. Participants will have hands-on experience with a complete set of residential cabinets for the student-built house.

CT-57B Cabinetmaking and Millwork II

(3 Units LEC/LAB) P/NP option

Prerequisite: CT-57A with a minimum grade of "C".

Transfers to: CSU

A course in intermediate cabinetmaking for residential applications. Topics include: machinery and hand tool safety, European construction, drawer and door construction, shelves and cabinet interiors, counter tops, cabinet installation, wood finishing, and current topics in cabinetmaking. Students participate in the construction of a set of residential cabinets for the student-built house.

CT-57C Cabinetmaking and Millwork III

(3 Units LEC/LAB) P/NP option

Prerequisite: CT-57B

Transfers to: CSU

A course in cabinetmaking, offering a hands-on opportunity for students interested in advanced techniques in cabinetmaking. Participants work on cabinets of their own design and choice. Topics include, cabinet history and design, job safety analysis, advanced machinery set-up and techniques, wood bending, wood turning, laminating, inlay, dying, coloring and finishing.

CT-57D Cabinetmaking and Millwork IV

(3 Units LEC/LAB) P/NP option

Prerequisite: CT-57C

Transfers to: CSU

A second semester course in advanced cabinetmaking. Participants work on cabinets of their own design and choice while expanding upon topics covered in Cabinetmaking III. Topics include, 20th and

21st century cabinet history and design, job safety analysis, advanced machinery set-up and techniques, wood bending, wood turning, laminating, inlay, dyeing, coloring and finishing, laser engraving and cabinet installation.

CT-70 Building Codes & Standards

(2 Units LEC) Grade only

Recommended Prep: CT-80

Transfers to: CSU

A course covering technical information and pertinent sections of the International Building Code. This course provides Code information necessary for building inspectors and students enrolled in Architecture and Construction Technology programs. Enrollment in Architecture or Construction Technology courses, or construction trade experience is recommended.

CT-72 Electrical Codes and Standards

(2 Units LEC) Grade only

Recommended Prep: CT-78A or CT-80 or DT-73

Transfers to: CSU

A course covering technical information and pertinent sections of the National Electrical Code. This course provides discussion and practice using the NEC by applying its provisions to technical examples and questions. Special emphasis will be placed upon examples related to residential requirements.

Note: Concurrent enrollment in Architecture or Construction Technology courses, or concurrent construction trade experience is recommended.

CT-78A Residential Wiring I

(2 Units LEC/LAB) Grade only

Transfers to: CSU

A study of the basic electrical wiring as it relates to residential construction. Topics include electrical theory, residential wiring circuits, blueprint reading, materials selection, installation methods, basic code requirements, and practice in wiring the student project house.

CT-78B Residential Wiring II

(2 Units LEC/LAB) Grade only

Prerequisite: CT-78A

Transfers to: CSU

A continuation of the electrical theory, principles and skills learned in CT-78A. Topics include service calculations, installation of residential wiring circuits and fixtures, use of conduit in wiring, remodel wiring, estimation and line drop calculations and completion of the wiring of the student project house.

CT-78C Residential Wiring III

(2 Units LEC/LAB) Grade only

Prerequisite: CT-78B

Transfers to: CSU

A continuing study of the electrical theory, principles and skills learned in CT-78B. Students will act as group leaders and be involved in problem solving. Specific instruction will be in relays, motors, 3-phase power, schematics, heating equipment, high efficacy lighting and electronic controls required for the completion of the student project house.

CT-78D Residential Wiring IV

(2 Units LEC/LAB) Grade only

Prerequisite: CT-78C

Transfers to: CSU

A continuing study of the electrical theory, principles and skills learned in CT-78C. Students will act as group leaders and be involved in problem solving. Specific instruction will be in electric service installation, alarms and security systems, over current protection, stand by power, low voltage circuits and electrical finish required for the completion of the wiring of the student project house.

CT-80 Carpentry Theory I

(3 Units LEC) Grade only

Recommended Prep: MATH-376 or MATH-276

Transfers to: CSU

A study of residential construction methods and materials. This class parallels progress on the student built project house. Topics will include: building layout, foundations, floor, wall and roof framing, wall and roof sheathing, windows and doors.

CT-81 Carpentry Theory II

(3 Units LEC) Grade only

Prerequisite: CT-80

Transfers to: CSU

A study of residential construction methods and materials. This class parallels progress on the student built project house. Topics will include exterior trim and siding, thermal and sound insulation, drywall, interior doors and trim, stairs and ramps, flooring, and alternative construction techniques.

CT-90 Beginning Carpentry I

(3 Units LAB) Grade only

Corequisite: CT-80

Transfers to: CSU

A practical lab where students physically build a house. Students will lay out the building, form and pour the foundation, frame the floor, walls, and roof, install roof and wall sheathing, install exterior trim and siding, install fascia, roofing and windows.

CT-91 Beginning Carpentry II

(3 Units LAB) Grade only

Prerequisite: CT-90

Corequisite: CT-81

Transfers to: CSU

A practical lab where students physically build a house. Students will install windows, exterior trim, siding, interior trim, doors, misc. hardware, layout frame and finish decks, form and pour flatwork.

CT-95 Intermediate Carpentry I

(3 Units LAB) Grade only

Prerequisite: CT-91

Transfers to: CSU

A lab to practice and reinforce skills through hands-on experience. Students will lay out the building, form, and pour the foundation (or lay a block foundation); frame the floor, walls, and roof; install roof and wall sheathing; fascia and roofing, and windows.

CT-96 Intermediate Carpentry II

(3 Units LAB) Grade only

Prerequisite: CT-95

Transfers to: CSU

A course to strengthen and reinforce skills through hands-on experience. Includes instruction in hanging interior doors, installing paneling, building wardrobe and clothes closets, installing baseboards, window jambs, casing, stools and aprons, installing masonry work for wood stove, installing wood stove, completing cathedral ceilings and setting finish hardware.

CT-98 Advanced Carpentry

(3 Units LAB) P/NP option

Prerequisite: CT-96

Transfers to: CSU

A practical lab to master carpentry skills through hands-on construction and leadership experience.

CT-130A Fine Woodworking: Theory and Practice

(18 Units LEC/LAB) P/NP option

Prerequisite: CT-57B

An introduction to traditional and contemporary cabinetmaking. Students study refinements in the use of joinery, tools, the elements of design, and

incorporation of these into individual projects is included.

CT-130B Fine Woodworking: Theory and Practice

(18 Units LEC/LAB) Grade only
Prerequisite: CT-130A

The second class in a series in Fine Woodworking. Students will have the opportunity to learn and apply fundamental furniture-making skills and to improve and strengthen their existing skills through different applications. A survey of the aesthetics of project design, construction procedures, and advance techniques will be presented.

CT-133A Fine Woodworking: Special Studies in Cabinet Making

(16 Units LAB) Grade only
Prerequisite: CT-130B

The first class in a series of individual study in advanced cabinetmaking. Course hours are divided among in-depth study of technical and aesthetic aspects of cabinetmaking, machine techniques, and hand-tool methods, relating to excellence in woodworking, i.e. the creation of fine furniture that combines personal expression with function and that is pleasing and proper. Students will plan and stage a fine furniture exhibition.

CT-133B Fine Woodworking: Advanced Special Studies in Cabinet Making

(16 Units LAB) Grade only
Prerequisite: CT-133A

The second class in a series of individual study in advanced cabinetmaking. Course hours are divided among in-depth study of technical and aesthetic aspects of cabinetmaking, machine techniques, and hand-tool methods relating to excellence in woodworking, i.e. the creation of fine furniture that combines personal expression with function and that is pleasing and proper. Students will plan and stage a fine furniture exhibition.

CT-135 Woodworking Hand Tools and Techniques

(2 Units LEC/LAB) Grade only

A course in the use and techniques of woodworking hand tools and hand tool joinery. Students will receive instruction in the making, tuning, and proper use of wooden hand planes and lay-out tools. Traditional woodworking joinery techniques will be studied and performed at the bench including: edge joining, dowelling, hand-cut dovetails, and mortise and tenon joinery.

CT-152 Open Lab for Woodworking

(1 Unit LAB) P/NP option
Corequisite: CT 2, or 16, or 21A, or 21B, or 55, or 57A, or 57B, or 57C, or 57D

Special studies for students currently enrolled in woodworking courses. Special studies include but are not limited to improving hand tool skills, developing jigs and fixtures, hand cut joinery, wood turning, finishing techniques, and woodworking machinery set-up, operation, and maintenance.

CT-210 Construction Trades: Introduction to Carpentry

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A course introducing materials, tools, and safety practices used in the carpentry trade. Students will learn to identify the characteristics of wood and lumber, such as, composition, grades and uses of plywood and nonstructural panels. Students will also learn about fasteners used in the trade and will get hands-on practice with hand and power tools.

■ Cooperative Work Experience Education [CE]

CE-41 General Cooperative Education Work Experience

(0.5-3 Units WEX) P/NP only
Transfers to: CSU

A course designed to assist students in planning and accomplishing meaningful learning objectives at their place of for-profit, nonprofit, or governmental employment or training. The course will emphasize: application of desirable work habits, safety on the job, developing healthy work attitudes, and acquisition of transferable job skills. To participate in this program the student's job does NOT need to be related to educational/career goals or college course work. Work-study students are encouraged to participate. Variable 0.5 to 3.0 units based upon 30-225 total "work" lab hours per semester. Not repeatable.

Note: Students must meet with the Cooperative Work Experience (CWE) Coordinator before they can be enrolled in any CWE courses. During fall and spring, students must be enrolled in at least 7 units (including CWE) to enroll in CWE. If enrolling in the summer, student must have been enrolled in at least 12 units (including CWE) in the previous spring semester. Students must take primary responsibility in finding a work experience opportunity and are strongly advised to find such an opportunity before enrolling in the class. Students should be advised that a maximum of 9 CWE units can be applied toward degree.

CE-42 Occupational Cooperative Education Work Experience

(0.5-8 Units WEX) P/NP only
Repeatability: Maximum of three enrollments
Transfers to: CSU

A course designed to assist students in planning and accomplishing meaningful learning objectives relevant to their particular occupation or major at their place of for-profit, nonprofit, or governmental employment or training. To participate in this program the student's job must be related to educational/career goals or college course work. Work-study students are encouraged to participate. Variable 0.5 to 8.0 units based upon 37.5-600 total work "lab" hours per semester. Repeatable once.

Note: Students must meet with the Cooperative Work Experience (CWE) Coordinator before they can be enrolled in any CWE courses. During fall and spring, students must be enrolled in at least 7 units (including CWE) to enroll in CWE. If enrolling in the summer, student must have been enrolled in at least 12 units (including CWE) in the previous spring semester. Students must take primary responsibility in finding a work experience opportunity and are strongly advised to find such an opportunity before enrolling in the class. Some employers or programs (ex: Administration of Justice, Early Childhood Education) may require fingerprinting and/or background checks. Students should be advised that a maximum of 9 CWE units can be applied toward degree.

■ Dental Assisting [DA]

DA-153 Dental Science

(2 Units LEC) Grade only
Prerequisite: (ENGL-150 or ENGL-153 or ENGL-102) and MATH-372
Corequisite: DA-154 and DA-155 and DA-156

A basic introduction to biomedical science as applicable to dental assisting. Identification of anatomical structures and recognition of functions are emphasized. Growth and development of oral tissues are examined. Customary terms and proper vocabulary are practiced in preparation for clinical competency

in patient care.

Note: Acceptance into the program is required prior to enrollment. Applications are accepted February - August.

DA-154 Dental Materials and Procedures

(3 Units LEC/LAB) Grade only
Corequisite: DA-153 and DA-155 and DA-156
Recommended Prep: ENGL-350 and MATH-372

A basic introduction to materials as applicable to dental assisting. Implementation of safety measures and technique development are emphasized in utilizing common products in clinical dentistry. Customary duties are practiced in preparation for clinical competency in patient care.

Note: Acceptance into the program is required prior to enrollment. Applications are accepted February - August. Instructional supplies purchased in DA 156 will be used in this course.

DA-155 Dental Radiography

(2 Units LEC/LAB) Grade only
Corequisite: DA-153 and DA-154 and DA-156
Recommended Prep: ENGL-350 and MATH-372

A basic introduction to radiographic principles as applicable to dental assisting. Implementation of safety measures and skill development in intra-oral imaging are emphasized in exposing diagnostic quality radiographs. Customary duties are practiced in preparation for clinical competency in patient care.

Note: Acceptance into the program is required prior to enrollment. Applications are accepted February - August. Instructional supplies purchased in DA-156 will be used in this course.

DA-156 Dental Assisting Fundamentals (Chairside)

(5 Units LEC/LAB) Grade only
Corequisite: DA-153 and DA-154 and DA-155
Recommended Prep: ENGL-350 and MATH-272

A basic introduction to chairside dental assisting. Implementation of safety measures and proficiency development in performing fundamental functions of four-handed clinical dentistry are emphasized. Customary duties are practiced in preparation for clinical competency in comprehensive patient care. Patient care begins mid-semester on-campus in the Dental Health Center (90 Clinical Hours).

Note: Acceptance into the Program is required prior to enrollment. Applications are accepted February - August. Supplies purchased will be used in DA-154, DA-155, DA-156, and throughout the spring semester.

DA-163 Dental Disease and Oral Health Issues

(2 Units LEC) Grade only
Prerequisite: DA-153 and DA-154 and DA-155 and DA-156 and MATH-272 and (ENGL-150 or ENGL-153 or ENGL-102)

Corequisite: DA-164 and DA-165 and DA-166 and DA-167
A continuation of introductory biomedical science as applicable to dental assisting. Preventative patient education is emphasized. Patient assessment, pathology, and pharmacology are examined. Customary terms and proper vocabulary are practiced in preparation for clinical competency in patient care.

Note: Acceptance into the Program is required prior to enrollment. Applications are accepted February - August.

DA-164 Dental Specialties and Expanded Duties

(3 Units LEC/LAB) Grade only
Prerequisite: DA-153 and DA-154 and DA-155 and DA-156 and
Corequisite: DA-163 and DA-165 and DA-166 and DA-167

Recommended Prep: ENGL-350 and MATH-372

A continuation of comprehensive dental care as applicable to dental assisting. Delivery of permitted duties in pedodontics, orthodontics, oral surgery,

periodontics, prosthodontics, and endodontics are emphasized. Customary duties are practiced in preparation for clinical competency in patient care.
Note: Acceptance into the Program is required prior to enrollment. Applications are accepted February - August. Supplies purchased in DA-156 (fall semester) will be used in DA-164.

DA-165 Advanced Dental Radiography

(2 Units LEC/LAB) Grade only
Prerequisite: DA-153 and DA-154 and DA-155 and DA-156

Corequisite: DA-163 and DA-164 and DA-167
Recommended Prep: ENGL-350 and MATH-372
A continuation of radiographic principles as applicable to dental assisting. Implementation of skill development and error analysis are emphasized in exposing both intra- and extra-oral diagnostic quality radiograph images. Clinical competency in patient care is required throughout the semester.

Note: Acceptance into the program is required prior to enrollment. Applications are accepted February - August. Supplies purchased in DA-156 (fall semester) will be used in DA-165.

DA-166 Dental Front Office Skills

(1 Unit LEC) Grade only
Prerequisite: (ENGL-150 or ENGL-153 or ENGL-102) and MATH-272 and DA-153 and DA-154 and DA-155 and DA-156

Corequisite: DA-163 and DA-164 and DA-165 and DA-167
A basic introduction to business office procedures as applicable to dental assisting. Communications and practice management operations are emphasized. Customary terms and proper vocabulary are practiced in preparation for clinical competency in patient care.

Note: Acceptance into the program is required prior to enrollment. Applications are accepted February - August. Early start class, class begins and ends prior to the beginning of spring semester.

DA-167 Dental Clinical Experience

(6 Units LEC/LAB) Grade only
Prerequisite: DA-153 and DA-154 and DA-155 and DA-156
Corequisite: DA-163 and DA-164 and DA-165 and DA-166

A capstone course performing fundamental chair-side assisting functions and permitted duties in clinical dentistry. Students provide patient care in the Dental Health Center and in extramural clinical sites contracted with the College to further develop skills and aptitudes. Teamwork, patient management, and interpersonal communication are emphasized. Clinical competency in patient care is required throughout the semester (270 Clinical Hours).

Note: Acceptance into the program is required prior to enrollment. Applications are accepted February - August. Supplies purchased in DA-156 (fall semester) will be used in DA-167.

■ Digital Media [DM]

DM-7 Introduction to Game Development

(4 Units LEC/LAB) Grade only
Recommended Prep: DM-10 and CIS-1 and ENGL-150
Transfers to: CSU

A study of game development fundamentals. Includes a survey of game development, game design, creating game art objects, game scripting, and game documentation.

DM-10 Digital Storytelling

(4 Units LEC/LAB) P/NP option
Recommended Prep: CIS-100
Transfers to: CSU

An introduction to storytelling with media, featuring digital media tools and techniques. Students conceptualize a short story and follow a development process to story delivery in digital format, using text, graphics, audio, video, animation, and interactivity. Course includes a survey of digital media applications, fundamentals, and issues relating to the use of digital media.

DM-11 Digital Media Design

(4 Units LEC/LAB) P/NP option
Recommended Prep: DM-10
Transfers to: CSU

An introductory course in visual design principles and concepts as applied to digital media-based projects with emphasis on the use of raster and vector graphic development tools.

DM-15 Pre-Production

(3 Units LEC) Grade only
Transfers to: CSU

A course in concept development through scripts and storyboards that can be used in animation, video, websites, games, and other media productions.

DM-20 Media Development for the Web

(4 Units LEC/LAB) P/NP option
Recommended Prep: DM-10 and DM-11
Transfers to: CSU

A study and practice in developing interactive media for the Web utilizing time lines and basic scripting. Students learn introductory skills using industry standard software to create, edit, and process digital media content for use in specific applications such as interactive Web sites, nonlinear, and linear productions.

DM-22 Digital Publishing

(4 Units LEC/LAB) Grade only
Recommended Prep: DM-10 and DM-20
Transfers to: CSU

A study in the use of professional software for developing digital media products and publishing on the Internet. Student teams follow a production process: concept, design, content development, product testing, and publishing.

DM-23 Motion Graphics

(4 Units LEC/LAB) Grade only
Recommended Prep: CIS-1 and DM-10
Transfers to: CSU

An intermediate course in motion graphics. Students will create visual effects and animated graphics for television, film, web, and other types of multimedia productions using professional development software.

DM-24A Animation Principles

(3 Units LEC/LAB) Grade only
Transfers to: CSU

A study in the principles of animation as defined by Disney animators and recognized as the essence of animation magic and the illusion of life as applied to 2D and 3D animation. Course includes the history of animation from early black-and-white cartoons to modern 2D and 3D productions. Students learn how scripts, storyboards, and short animation sequences are developed using traditional and computer techniques.

DM-24B Cartoon Animation

(4 Units LEC/LAB) Grade only
Recommended Prep: ART-17 and DM-10 and DM-24A
Transfers to: CSU

An introductory- to intermediate-level course in cartoon animation. Students conceptualize and develop 2-D characters to be used in frame-based animation software. Students learn industry-standard animation techniques for creating characters that walk, talk, and show expressions

DM-30 Interactive Media

(4 Units LEC/LAB) Grade only
Recommended Prep: DM-10 and DM-20 and DM-22
Transfers to: CSU

A course using professional-level software to develop interactive media products for entertainment and/or educational use. Students follow a production process to design and develop content to meet defined objectives and delivery requirements.

DM-40 Independent Study in Digital Media

(0.5-2 Units IND) Grade only
Transfers to: CSU

Individual research and special projects in Digital Media. Specific projects will be determined upon consultation with instructor.

Note: Students taking an independent study course must have an approved contract on file.

DM-42 Cooperative Education Work Experience Digital Media

(0.5-8 Units LAB) P/NP only
Repeatability: Maximum of three enrollments
Transfers to: CSU

A course designed to assist students in accomplishing learning objectives directly related to their Digital Media career goals or college course work in a supervised work environment that extends classroom-based occupational learning to an on the job learning situation. To participate in this course, the student's placement and course objectives must be related to their career goals or college course work.

Note: Students must meet with the Cooperative Work Experience (CWE) Coordinator before they can be enrolled in DM-42. During fall and spring, students must be enrolled in at least 7 units (including CWE) to enroll in CWE. If enrolling in the summer, student must have been enrolled in at least 12 units (including CWE) in the previous spring semester. Students must take primary responsibility in finding a work experience opportunity and are strongly advised to find such an opportunity before enrolling in the class. Some employers or programs may require fingerprinting, drug testing, and/or background checks. Students should be advised that a maximum of 9 units can be applied toward a degree. Students may enroll a total of 3 times (repeatable twice). Variable 0.5 to 8.0 units, based on 37.5-600 work lab hours per semester.

DM-56 Video Production

(4 Units LEC/LAB) Grade only
Recommended Prep: DM-10 and DM-15
Transfers to: CSU

An introduction to digital video production providing design theory and hands-on with camera technique and non-linear editing. Students will practice the production process from live shoot to final edit.

DM-63 Desktop Publishing Applications

(4 Units LEC/LAB) Grade only
Recommended Prep: CIS-100
Transfers to: CSU

A study and practice in the use of professional desktop publishing software. Students will apply the principles of typography and graphic design to develop documents which combine text, graphics, and photographs on a printed page for personal and business use.

Note: Same as BT-63.

DM-70A Photoshop I

(0.5 Units LAB) P/NP option
Transfers to: CSU

An introduction to the concepts of Adobe Photoshop. In this hands-on course, students learn basic Photoshop techniques for image development and optimization for various delivery formats.

DM-70B Photoshop II

(0.5 Units LAB) P/NP option
Recommended Prep: DM-70A
Transfers to: CSU

Intermediate studies and hands-on skill development with masks, blending modes, alpha channels, and other common Photoshop techniques.

DM-71 Digital Illustration

(0.5 Units LAB) P/NP option
Transfers to: CSU

An introduction to the concepts and use of digital illustration software. In this hands-on course, students develop vector graphics using industry standard graphics software.

DM-73 Introduction to Digital Audio

(0.5 Units LAB) P/NP option
Transfers to: CSU

A hands-on course in which students are introduced to digital audio. Students will capture, create, and edit sound files for media productions and various delivery formats.

DM-74 Introduction to Digital Video

(0.5 Units LAB) P/NP option
Transfers to: CSU

A hands-on course in which students are introduced to digital video. Students will capture, create, and edit video files for media productions and various delivery formats.

■ Drafting Technology [DT]**DT-23 Engineering Design Graphics**

(3 Units LEC/LAB) Grade only
Recommended Prep: CIS-100
Transfers to: UC and CSU

A study of engineering design graphics for engineers and drafters with an emphasis on technical drawings and an introduction to computer-aided design (CAD). Topics include the development of visualization skills; orthographic projections; 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.

DT-25 Computer Aided Design and Drafting

(4 Units LEC/LAB) Grade only
Prerequisite: DT-23 or ENGR-23
Transfers to: UC and CSU

An intermediate level study of Computer-Aided Design and Drafting. Students will expand their ability to use CAD software to create, modify, and plot 2D architectural, mechanical, and civil design drawings with consideration for productivity and industry standard practices.

DT-40 Independent Study in Drafting Technology

(0.5-2 Units IND) Grade only
Transfers to: CSU

Individual research and special projects in Drafting Technology and 3D Modeling. Specific projects will be determined upon consultation with instructor.

Note: Students taking an independent study course must have an approved contract on file.

DT-42 Cooperative Education Work Experience Drafting Technology

(0.5-8 Units LAB) P/NP only
Repeatability: Maximum of three enrollments
Transfers to: CSU

A course designed to assist students in accomplishing learning objectives directly related to their Drafting Technology career goals or college course work in a supervised work environment that extends classroom-

based occupational learning to an on-the-job learning situation. To participate in this course, the student's placement and course objectives must be related to their career goals or college course work.

Note: Students must meet with the Cooperative Work Experience (CWE) Coordinator before they can be enrolled in DT-42. During fall and spring, students must be enrolled in at least 7 units (including CWE) to enroll in CWE. If enrolling in the summer, students must have been enrolled in at least 12 units (including CWE) in the previous spring semester. Students must take primary responsibility in finding a work experience opportunity and are strongly advised to find such an opportunity before enrolling in the class. Some employers or programs may require fingerprinting, drug testing, and/or background checks. Students should be advised that a maximum of 9 units can be applied toward a degree. Students may enroll a total of 3 times (repeatable twice). Variable 0.5 to 8.0 units, based on 37.5-600 work lab hours per semester.

DT-50 3D CAD Applications

(4 Units LEC/LAB) Grade only
Prerequisite: DT-23 or ENGR-23
Transfers to: CSU

An intermediate level study of 3D modeling and presentation methods used in the design and drafting industry. Students will study the creation and application of wireframe, surface, solid, and parametric CAD models as well as design visualization techniques and rapid prototyping processes.

DT-60 Mechanical Design Drafting

(4 Units LEC/LAB) Grade only
Prerequisite: DT-23 or ENGR-23
Transfers to: CSU

A study of mechanical drafting with a focus on the development of 3D feature-based parametric part and assembly models. Students will develop proficiency in the application of mechanical CAD software to draft designs per industry standards. Additional topics include threads and fasteners, weldments, sheet metal, and tolerancing.

DT-71 Architectural Drafting Fundamentals

(3 Units LEC/LAB) Grade only
Prerequisite: DT-23 or ENGR-23
Transfers to: CSU

A study of architectural drafting that emphasizes the creation of building information models (BIM). Students will develop proficiency in the application of architectural CAD software to develop residential architectural plans.

DT-73 Architectural Drafting - Residential Design

(3 Units LEC/LAB) Grade only
Prerequisite: DT-71
Transfers to: CSU

A study of architectural drafting with an emphasis on the creation of a building information model and the resulting residential architectural plans. Students will develop complete plan sets with consideration for aesthetics, methods of construction, building codes, and common industry practices.

DT-80 Modeling and Animation

(4 Units LEC/LAB) Grade only
Recommended Prep: CIS-100
Transfers to: CSU

A study of 3D computer modeling, animation, and visualization. Students will use commercial grade software to learn how to create 3D content for architecture and product visualization, games, film/video, special effects, pre-visualization, and environment design.

■ Drama [DRAMA]**DRAMA-24 Introduction to Theatre**

(3 Units LEC) Grade only
Transfers to: UC and CSU
C-ID: THTR 111

Surveys the evolution of Western drama from classical Greece to the present. Addresses significant genres and dramatic forms in their historical and cultural contexts, as well as the nature of the collaborative process between playwright, director, actor, technical designer, and audience.

DRAMA-26 Rehearsal and Performance in Production

(1-2 Units LAB) Grade only
Transfers to: UC and CSU
C-ID: THTR 191

This course provides instruction and supervised participation in theatre rehearsal and performance.
Note: Audition required for acting roles.

DRAMA-30A Acting I

(3 Units LEC/LAB) Grade only
Transfers to: UC and CSU
C-ID: THTR 151

A course that addresses the fundamental aspects of the art of acting with a focus on physical movement and gesture. Emphasis is placed on improvisation and practical exercises leading to formal scene work. The ultimate goal is to develop a firm foundation in basic acting technique.

DRAMA-30B Acting II

(3 Units LEC/LAB) Grade only
Prerequisite: DRAMA-30A
Transfers to: UC and CSU
C-ID: THTR 152

Study of acting styles with emphasis on character development and script analysis, with continuing work on voice and movement.

DRAMA-38 Introduction - Field Experience in Drama

(2 Units FEX) Grade only
Transfers to: CSU

Practical application of dramatic arts through supervised placement at approved local community theatre. Students will contract with community theatres for a semester of experiential service learning in their area of interest.

■ Early Childhood Education [ECE]**ECE-1 Principles and Practices of Teaching Young Children**

(3 Units LEC) P/NP option
Recommended Prep: ENGL-150
Transfers to: CSU
C-ID: ECE 120

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 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.

ECE-2 Child Growth and Development

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: CSU
C-ID: CDEV 100

An examination of the major physical, psychosocial, and cognitive/language developmental milestones

for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages.

Note: This is a Title 22 core course.

ECE-5 The Child in the Family and in the Community

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: CSU
C-ID: CDEV 110

An examination of the developing child in a societal context focusing on the interrelationship of family, school, and community with emphasis on historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families.

Note: This is a Title 22 core course.

ECE-6 Child Health, Safety and Nutrition

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: CSU
C-ID: ECE 220

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 with families and health professionals. Focus on integrating the concepts into everyday planning and program development.

ECE-7 Introduction to Early Childhood Curriculum

(3 Units LEC/LAB) Grade only
Recommended Prep: ECE-1, ECE-2 and ENGL-150
Transfers to: CSU
C-ID: ECE 130

An overview of knowledge and skills related to providing appropriate curriculum and environments for infants and young children. Students will examine the teacher's role in supporting development by using observation and assessment strategies and emphasizing the essential role of play. An overview of content areas will include but not be limited to the following: language and literacy, social and emotional learning, sensory learning, art and creativity, math and science.

Note: This is a Title 22 core course. This course includes three hours of field experience per week at a site approved by the faculty member. Specific criteria will be required for site approval. Effective Fall 2016, students enrolled in ECE-7 will require proof of immunizations or immunity for: Measles, Pertussis, and Influenza.

ECE-9 Observation and Assessment in Early Childhood Education

(3 Units LEC) Grade only
Recommended Prep: ECE-2 and ENGL-150
Transfers to: CSU
C-ID: ECE 200

A course focusing on the appropriate use of a variety of assessment and observation strategies to document child development and behavior. Child observations will be conducted and analyzed.

ECE-10 Field Experience in Early Childhood Education

(3 Units LEC/LAB) Grade only
Prerequisite: ECE-7
Recommended Prep: ENGL-150
Transfers to: CSU
C-ID: ECE 210

A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. 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.

Note: This course includes six hours of field experience per week at a site approved by the faculty member. Specific criteria will be required for site approval. Effective Fall 2016, students enrolled in ECE-10 will require proof of immunizations or immunity for: Measles, Pertussis, and Influenza.

ECE-11 Infant-Toddler Care and Education

(3 Units LEC) Grade only
Recommended Prep: ECE-2 or ECE-31 and ENGL-150
Transfers to: CSU

Application of current theory and research to the care and education of infants and toddlers in group settings. Examines essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months.

Note: This course meets the Community Care Licensing requirement for course work in Infant-Toddler Care. This course may be used to partially fulfill ECE unit requirements for the Master Teacher Child Development Permit 6-unit Specialization.

ECE-12 Administration I: Programs in Early Childhood Education

(3 Units LEC) Grade only
Recommended Prep: ECE-2 and ECE-5 and ECE-7 and ENGL-150
Transfers to: CSU

An introductory course in the administration of early childhood programs. The course covers program types, budget management, regulations, laws, development and implementation of policies and procedures. Students will also examine administrative tools, philosophies, and techniques needed to organize, open, and operate and early care and education program.

Note: Meets the Administration requirement of Community Care Licensing and for the Child Development Permit.

ECE-13 Administration II: Personnel and Leadership in Early Childhood Education

(3 Units LEC) Grade only
Recommended Prep: ECE-2 and ECE-5 and ECE-7 and ENGL-150
Transfers to: CSU

A course in effective strategies for personnel management and leadership in early care and education settings. Students study legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program.

Note: Meets the Administration requirement of Community Care Licensing and for the Child Development Permit.

ECE-14 Introduction to Children with Special Needs

(3 Units LEC) Grade only
Recommended Prep: ECE-2 and ENGL-150
Transfers to: CSU

An introduction to the variations in development of children with special needs ages birth through eight and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with special needs, and the identification and referral process.

Note: This course may be used to partially fulfill ECE unit requirements for the Master Teacher Child Development Permit 6-unit Specialization.

ECE-18 Teaching in a Diverse Society

(3 Units LEC) Grade only
Recommended Prep: ECE-2 and ENGL-150
Transfers to: CSU
C-ID: ECE 230

An examination of the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling.

ECE-20 Mentoring and Adult Supervision in Children's Programs

(2 Units LEC) Grade only
Recommended Prep: ECE-2 and ECE-5 and ECE-7 and ENGL-150
Transfers to: CSU

A course in methods and principles of supervising student teachers, staff, and other adults in early care and education settings. Emphasis is on the roles and development of early childhood professionals as mentors and leaders.

Note: Meets the Adult Supervision requirement of the Child Development Permit.

ECE-23 Literacy & Language Development of Young Children

(3 Units LEC) Grade only
Recommended Prep: ECE-2 and ENGL-150
Transfers to: CSU

An exploration of strategies for fostering language and literacy development during the early childhood years. Students will learn about resources available to support language and literacy competence in young children.

Note: This course may be used to partially fulfill ECE unit requirements for the Master Teacher Child Development Permit 6-unit Specialization.

ECE-31 Infant-Toddler Development

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: CSU

A study of infants and toddlers from pre-conception to age three including physical, cognitive, language, social, and emotional growth and development. Applies theoretical frameworks to interpret behavior and interactions between heredity and environment. Emphasizes the role of family and relationships in development.

Note: This course meets the Community Care Licensing requirement for course work in Infant-Toddler Care. This course may be used to partially fulfill ECE unit requirements for the Master Teacher Child Development Permit 6-unit Specialization.

ECE-34 Curriculum and Strategies for Children with Special Needs

(3 Units LEC) Grade only
Recommended Prep: ECE-2 and ENGL-150
Transfers to: CSU

A focus on curriculum and intervention strategies for working with children with special needs in partnership with their families. Focuses on the use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments. Includes the role of the teacher as a professional working with families, collaboration with interdisciplinary teams, and cultural competence.

Note: This course may be used to partially fulfill ECE unit requirements for the Master Teacher Child Development Permit 6-unit Specialization.

■ Economics [ECON]

ECON-1 Macroeconomics

(3 Units LEC) Grade only
Prerequisite: MATH-380 and (ENGL-150 or ENGL-102 or ENGL-153)
Recommended Prep: MATH-102 or MATH-120 or MATH-194
Transfers to: UC and CSU
C-ID: ECON 202

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.

ECON-10 Microeconomics

(3 Units LEC) Grade only
Prerequisite: MATH-380 and (ENGL-150 or ENGL-102 or ENGL-153)
Recommended Prep: MATH-102 or MATH-120 or MATH-194
Transfers to: UC and CSU
C-ID: ECON 201

An introductory course focusing on choices of individual economic decision-makers. Topics include scarcity, specialization and trade, market equilibrium, elasticity, production and cost theory, market structures, factor markets, and market failure.

■ Education [EDUC]

EDUC-201 CR Tech Tools Workshop

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A noncredit course introducing students to the online communication tools used at College of the Redwoods (WebAdvisor, Learning Management System, and student email). This basic orientation is a hands-on overview of how to access and effectively interact with these online tools to become a more efficient and successful student.

EDUC-203 Getting Started in Online Classes with Canvas

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A noncredit course preparing students to be effective learners in an online environment. This course will emphasize best practices in online learning, internet etiquette, and the effective use of the Learning Management System. It is intended for students taking an online course for the first time or for those in need of an online refresher. This course also serves as a great introduction to other software used in the workplace.

EDUC-207 Getting Started With Computers

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A noncredit course in basic computer skills development designed for students who have little or no experience using a computer. Topics include fundamental components of computer and program operation such as an introduction to internet usage, MyCR, email, and file system management and navigation.

EDUC-210 Adult Basic Education

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A noncredit course at the elementary education level to help learners improve their basic reading, writing, and math skills for employment or to prepare for high school equivalency or GED classes.

EDUC-220 Career and College Foundations

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A noncredit course providing instruction in the core academic subject areas (Math, Language Arts, Social Sciences, and Science) at the secondary level. The emphasis is on helping students transition successfully to college or a new career. Students may work in a self-paced lab setting where content is individualized and driven by student needs. The focus is on study skills, test-taking strategies, work readiness, and exploration of career and educational pathways.

EDUC-225 High School Equivalency/GED Preparation

(0 Units LEC) P/NP only
Repeatability: No limit to enrollments
Recommended Prep: EDUC-210

A noncredit course providing an overview of the four academic subject areas that comprise the 2014 GED and other high school equivalency tests (i.e., Language Arts, Mathematics, Social Studies, and Science). Computer skills necessary for passing current high school equivalency tests will also be covered. Through the use of diagnostic pretests, course content will emphasize students' needs.

■ Engineering [ENGR]

ENGR-23 Engineering Design Graphics

(3 Units LEC/LAB) Grade only
Prerequisite: MATH-25
Recommended Prep: CIS-100
Transfers to: UC and CSU
C-ID: ENGR 150

A study of engineering design graphics for engineers and drafters with an emphasis on technical drawings and an introduction to computer-aided design (CAD). Topics include the development of visualization skills; orthographic projections; 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.

■ English [ENGL]

ENGL-1A Analytical Reading and Writing

(4 Units LEC) Grade only
Prerequisite: ENGL-102 or ENGL-150
Transfers to: UC and CSU
C-ID: ENGL 100

A transfer-level course in critical reading and reasoned writing. Students analyze issues and claims presented in visual, oral, or written arguments and write analytical and argumentative essays based on those issues. Research and source-based writing,

employing correct MLA documentation, is required; minimum 6,000 words formal writing.

ENGL-1B Critical Inquiry and Literature

(3 Units LEC) Grade only
Prerequisite: ENGL-1A w
Transfers to: UC and CSU
C-ID: ENGL 105

A course using literature as a basis for critical thinking and composition. Students analyze issues, problems, and situations represented in literature and develop effective short and long written arguments (6000 minimum word total) in support of an analysis. This course is designed for those students who seek to satisfy both the full year composition and the critical thinking transfer requirements.

ENGL-1L English 1A Cohort Lab

(0.5 Units LAB) Pass/No Pass only
Corequisite: ENGL-1A
Transfers to: CSU

A lab providing additional support and practice in reading, writing, and critical thinking skills. ENGL-1A students come together in "cohort" or learning group, led by the instructor of their ENGL-1A class.

Note: Students must be enrolled in the ENGL-1A Cohort Lab taught by the same instructor of their ENGL-1A class.

ENGL-4 Introduction to Literature

(3 Units LEC) Grade only
Prerequisite: ENGL-1A
Transfers to: UC and CSU
C-ID: ENGL 120

A course introducing representative works from major forms and genres, developing students' close reading and analytical writing skills, and promoting appreciation and critical understanding of the cultural, historical, and aesthetic qualities of literature.

ENGL-9 World Literature: Early Modern to 21st Century

(3 Units LEC) Grade only
Prerequisite: ENGL-102 or ENGL-150 or ENGL-153
Transfers to: UC and CSU
C-ID: ENGL-145

A comparative study of world literature from the 16th through the 21st century. Students will read and discuss a variety of translated and English-language works in a wide range of genres to develop the critical and analytical skills necessary for the appreciation of diverse literatures and cultures.

ENGL-10 World Literature: Antiquity to the Early Modern Era

(3 Units LEC) Grade only
Prerequisite: ENGL-150 or ENGL-102
Transfers to: UC and CSU
C-ID: ENGL 140

A comparative study of world literature to the 16th century. Students will read critically and analytically in and respond to translated works covering a broad range of time and places, including literatures of Classical Mediterranean cultures, Asia, Africa, Latin and Native America, and the Middle East.

ENGL-17 American Literature: Beginnings to the Civil War

(3 Units LEC) Grade only
Prerequisite: ENGL-150 or ENGL-102
Transfers to: UC and CSU
C-ID: ENGL 130

A survey of early American literature from pre-conquest and early contact, up to the Civil War. Students will read critically and analytically in genres ranging from transcribed oral legends through exploration and captivity narratives, religious tracts, letters, philosophical essays, diaries, novels, short stories, and poems

ENGL-18 American Literature: Civil War to the Present

(3 Units LEC) Grade only
 Prerequisite: ENGL-150 or ENGL-153 or ENGL-102
 Transfers to: UC and CSU
 C-ID: ENGL 135

A survey of American literature from the Civil War through the present. Students will read critically and analytically to understand ideas and historical and cultural implications of major works of American literature.

ENGL-32 Creative Writing: Poetry

(3 Units LEC) P/NP option
 Recommended Prep: Eligibility for ENGL-150
 Transfers to: CSU

A study in developing the art of writing poetry, emphasizing communication, clarity, and economy. Students read and analyze many types of poetry while they generate, develop, critique, and revise their own and others' poems.

ENGL-33 Creative Writing: Prose

(3 Units LEC) P/NP option
 Recommended Prep: ENGL-150
 Transfers to: CSU

A study in the art of writing fiction, emphasizing communication, clarity, and development. Students read and analyze many types of stories while they generate, expand, critique, and revise their own and others' stories.

ENGL-40 Independent Study in English

(1-2 Units IND) P/NP option
 Transfers to: CSU

A course involving the individual student in research or activity in the field of English. Specific projects will be determined upon consultation with the instructor. Laboratory hours will be arranged. A written report or evaluation of the work completed will be required by the end of the semester.

ENGL-41 English Skills Tutoring

(3 Units LEC/LAB) Grade only
 Prerequisite: ENGL-1A
 Transfers to: CSU

A collegiate tutor training course emphasizing instruction in specific skills and techniques of tutoring while simultaneously requiring supervised tutoring of developmental level students in English in the Writing Center. Students will learn how to question and to listen more effectively, how to evaluate, diagnose, and remediate writing problems, and how to assess which tutoring strategy is most appropriate for the individual learning situation.

ENGL-53A English Lab for ENGL-1A

(0.5-1 Unit LAB) P/NP only Prerequisite: ENGL-1A
 Transfers to: CSU

Individualized instruction to help students improve reading, writing, and critical thinking skills needed to succeed in English 1A. Tutoring and other resources for academic reading, analytical and source-based writing, standard written English conventions, and all stages of the writing process are provided.

ENGL-53B English Lab for ENGL-1B

(0.5-1 Unit LAB) P/NP only
 Prerequisite: ENGL-1B
 Transfers to: CSU

Individualized instruction to help students improve reading, writing, and critical thinking skills needed to succeed in English 1B. Tutoring and other resources for academic reading, literary analysis and interpretation, analytical writing, standard written English conventions, and the writing process are provided.

ENGL-54 English Lab for Arts, Humanities and Communications

(0.5-1 Unit LAB) P/NP only
 Transfers to: CSU

Individualized instruction to help students improve reading, writing, and critical thinking skills needed to succeed in Arts, Humanities, and Communications courses. Tutorial support and other resources for analytical, expository, and interpretive reading and writing are provided, including standard written English conventions and the writing process.

Note: To earn credit for ENGL-54, students must be enrolled in at least one Art, Humanities, or Communication course requiring writing and/or critical reading. Appropriate subject areas for ENGL-54 co-enrollment include History, Art, Music, Cinema, Philosophy, Environmental Ethics, Speech, Journalism, and Literature (English).

ENGL-55 English Lab for Behavioral and Social Sciences

(0.5-1 Unit LAB) P/NP only
 Transfers to: CSU

Individualized instruction to help students improve reading, writing, and critical thinking skills needed to succeed in Behavioral and Social Science courses. Tutoring and other resources for successful writing in BSS disciplines, including standard written English conventions.

Note: To earn credit for ENGL-55, students must be enrolled in at least one Behavioral or Social Science course requiring writing and/or critical reading. Appropriate subject areas for ENGL-55 co-enrollment include Anthropology, Economics, Education, Geography, Political Science, Psychology and Sociology.

ENGL-60 Introduction to British Literature: Beginnings Through the 18th Century

(3 Units LEC) Grade only
 Prerequisite: ENGL-150 or ENGL-102
 Transfers to: UC and CSU
 C-ID: ENGL 160

An introduction to British literature from the middle ages through the eighteenth century. Students will explore the ideas and literary features of major works within their historical and cultural contexts.

ENGL-61 Introduction to British Literature: Romanticism to the Present

(3 Units LEC) Grade only
 Prerequisite: ENGL-150 or ENGL-102
 Transfers to: UC and CSU
 C-ID: ENGL 165

An introduction to British literature from the Romantic period to the present. Students will explore the ideas and literary features of major works within their historical and cultural contexts.

ENGL-102 Developing Reading and Writing

(4.5 Units LEC/LAB) P/NP only
 A course where students use critical reading strategies to analyze issues and claims presented in visual, oral, or written arguments and write essays based on those issues. This course consists of 4 units of lecture and 0.5 units of lab.

Note: This course is designed to support students at all placement levels in preparation for English 1A.

ENGL-150 Precollegiate Reading and Writing

(3.5 Units LEC/LAB) Grade only
 Prerequisite: ENGL-350

A course in the development of college-level reading, writing, and critical thinking skills, emphasizing basic argumentation. Students analyze ideas and structure in assigned readings and compose essays supporting arguable thesis statements. The lab component of

the course is scheduled in the Writing Center, where students receive individualized instruction in critical reading, in the conventions of standard written English, and in all stages of the writing process.

ENGL-350 Integrating Reading and Writing

(6 Units LEC/LAB) Grade only
 Prerequisite: READ-260

A competency-based course emphasizing the integration of academic reading and writing skills. Students develop reading strategies necessary for academic reading and write extended formal paragraphs and reading-based expository essays. The lab component is scheduled in the Writing Center where students receive essential tutorial support in reading, writing, and sentence skills.

English as a Second Language [ESL]
ESL-200 Fundamental English as a Second Language (ESL) - Low Beginning

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments

Develop basic listening comprehension skills and initiate survival speaking skills for low beginning ESL students. Introduce essential reading and some writing skills. Communicative- and contextually-based instruction.

ESL-201 Fundamental English as a Second Language (ESL) - High Beginning

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments
 Recommended Prep: ESL-200

Enrich essential listening skills and survival speaking skills through vocabulary development for high beginning ESL students. Instruction in essential reading and writing skills. Communicative- and contextually-based instruction.

ESL-205 Fundamental Career and Educational Vocabulary for ESL Students

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments

Introduce students to contextual vocabulary of community college practices, career options and job requirements, educational pathways and resources available to them. Students use this knowledge to craft a Student Education Plan.

ESL-207 Fundamental Computer Vocabulary for ESL Students

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments

Introduction to essential vocabulary and basic English writing skills on personal computers for ESL students. Basic writing and vocabulary development in workplace-related topics and cultural literacy, with emphasis on career skills abilities and targeted vocabulary development in web searching strategies.

ESL-210 Intermediate English as a Second Language (ESL) - Low

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments
 Recommended Prep: ESL-201

Build on developed listening comprehension skills and cultivate more complex speaking skills for Low Intermediate ESL students. Instruction in essential reading and writing skills. Communicative- and contextually-based instruction.

ESL-211 Intermediate English as a Second Language (ESL) - High

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments
 Recommended Prep: ESL-210

Cultivate competence and confidence in reading and writing, sentence and paragraph structure, verbal communication skills, comprehension of everyday spoken English; development of life skills competencies. Communicative- and contextually-based instruction.

ESL-215 Intermediate Career and Educational Vocabulary for ESL Students

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments
 Recommended Prep: ESL-200 and ESL-201 and ESL-205

Presents students with career options, educational pathways and resources available to them, and develops target contextual vocabulary. Students make decisions needed for formation of Student Education Plan and are afforded opportunities to engage in conversations with professionals and students in fields of interest.

ESL-217 Intermediate Computer Vocabulary for ESL Students

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments

Development of English vocabulary, and reading and writing skills, using personal computers for ESL students. Vocabulary development in skills areas of Word Processing and Keyboarding; special emphasis Web browsing with focus on English language Web search and career search abilities and targeted vocabulary development.

■ Environmental Science [ENVSC]
ENVSC-10 Introduction to Environmental Science

(4 Units LEC/LAB) P/NP option
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU

A study of current and historical issues in the environmental sciences. This course emphasizes the interdisciplinary nature of environmental science, including physical and biological sciences as well as integrating social, economic, and ethical viewpoints in dealing with environmental problems. Laboratories augment lecture topics and include both lab and field work.

Note: This course is designed for non-science majors. Field trips are required and transportation is not provided.

ENVSC-11 Environmental Ethics

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150 or ENGL-102
 Transfers to: UC and CSU

An examination of issues arising out of ethical considerations related to the general environment and specific ecosystems, life forms, and places. Students will engage scientific, philosophical, and cultural concepts of nature and explore the social and personal ramifications for current ethical choices regarding local, regional, national, and global issues.

ENVSC-12 Earth's Changing Climate

(3 Units LEC) Grade only
 Transfers to: UC and CSU

A planet-scale examination of the Earth's atmosphere and climate. This course will include an in-depth look at the factors controlling climate, its changes over time, and the timeline of global climatic changes. This course is an interdisciplinary introduction to the Earth's climatic systems and interactions.

■ Fire Technology [FT]
FT-201 Introduction to Wildland Fire Behavior (NWCG S-190)

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments

A study of the primary factors affecting the start and spread of wildfire and of the skills necessary for recognizing hazardous firefighting situations. This course is designed to meet the fire behavior training needs for a student to become a Firefighter Type 2 and is equivalent to the National Wildland Coordinating Group (NWCG) course S-190.

Note: This course is typically taken in conjunction with FT-202.

FT-202 Federal Wildland Firefighter Training

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments

A course designed to train students to become firefighters on the basic skills needed to become a Wildland Firefighter. This course includes a basic orientation to wildland firefighting, human factors affecting leadership and decision making, safety, and an introduction into the Incident Command System. Fire line construction, water use, firing devices and burnout procedures will also be covered. This course meets the National Wildfire Coordinating Group (NWCG) requirements for S-130.

Note: Students will be required to pass a written test meeting the minimum NWCG standards. Upon completion the student will be issued a certificate documenting the completion of: 1. NWCG - S-110 Basic Wildland Fire Orientation; 2. NWCG - I-100 Basic ICS; 3. NWCG - S-130 Wildland Firefighting Training; 4. NWCG - L-180 Human Factors in the Wildland Fire Service.

FT-205 CALFIRE Firefighter Basic Training 80 Hours

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments

A course that teaches students about basic wildland and structural firefighting. It will provide students with entry-level knowledge and skills that firefighters use in wildland and structural firefighting. This course, in combination with the additional courses identified in the CALFIRE Basic Firefighter Certificate program, is required for all CALFIRE firefighters.

Note: Weekend field exercises may be required. This course includes 16 hours of field exercises that are physically strenuous. Students need to be physically fit and should consult their doctor before engaging in firefighter training. Students will be expected to perform in claustrophobic spaces while wearing a breathing apparatus and a facepiece.

FT-206 Confined Space Awareness

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments

An awareness course preparing firefighters to safely enter and rescue in confined spaces and permit-required confined spaces. Students will learn about the regulations governing operations in confined spaces, the definitions and differences between confined spaces and permit-required confined spaces, and the hazards associated with these spaces. Students will also examine case studies about accidents associated with confined space entry and rescue.

Note: When taught as a State Fire Training course, students will be eligible to receive a State Fire Training Certificate. The cost for this optional certificate is approximately \$20.

FT-207 Firefighter Survival

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments

A course preparing students with a greater understanding of situational awareness on the fireground.

Topics include firefighter terminology, developing a survival attitude, preventing firefighter emergencies, firefighter survival skills, technical skills, and understanding how to be resourceful when faced with dangerous entrapment situations.

Note: When taught as an affiliated State Fire Training course, students are eligible to receive a State Fire Training Certificate. The fee for this optional certificate is approximately \$20.

FT-210 Hazardous Materials First Responder Operational

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments

An introduction to hazardous chemicals. Students learning to become public safety workers and other likely first responders can gain the knowledge and skills to respond to hazardous materials emergencies in a safe and competent manner at the basic operational level. Meets CSI FRO standards.

■ Forestry & Natural Resources [FNR]
FNR-1 Introduction to Forestry and Natural Resources

(3 Units LEC/LAB) Grade only
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU

An introduction to forest and natural resource issues and management. The lectures and discussion cover three general areas: goods and services derived from forests; basic management strategies for natural resources; and the development and application of relevant policies and regulations, including historical perspectives.

Weekly field exercises introduce students to basic techniques for field work and how different management approaches are applied in the woods.

Note: Field trips are required and the College does not provide transportation.

FNR-3 Seminar in Forestry and Natural Resources

(1 Units LEC/LAB) Grade only
 Transfers to: CSU

An exploration of careers available and skills needed for being successful in the forestry and natural resource professions. Seminars on basic job application skills, talks from area professionals, and practical demonstrations of topics such as woods safety and common practices will help prepare students for a career in the field.

FNR-5 Forest Ecology and Management

(3 Units LEC/LAB) Grade only
 Recommended Prep: ENGL-150
 Transfers to: CSU

An introduction to the basic theories of forest ecology and better management strategies. While generally broad-based, the course will focus on topics such as disturbance, competition, and regeneration ecology more closely because of their direct relationship to management activities. Laboratory exercises will provide collaborative and experiential learning opportunities as linkages between the field and theory are examined.

Note: Field trips are required and the College does not provide transportation.

FNR-10 Timber Harvesting and Forest Operations

(4 Units LEC/LAB) Grade only
 Prerequisite: FNR-1 and FNR-5 and FNR-51 and FNR-54

Recommended Prep: FNR-52 and FNR-58 and FNR-65
 Transfers to: CSU

A lecture, discussion, and field laboratory course exploring the practical application of timber harvesting techniques and forest operations in the framework of the California Forest Practices Act. Students will learn

basic forest operations including elements of road layout and design, harvesting design and limitations, and operational equipment use and limitations. The field exercises will focus on application of these principles on the ground and will include field trips to active timber harvesting operations.

Note: Lab has a significant field component in rough terrain and adverse weather with off-campus travel required.

FNR-40 Independent Study in Forestry & Natural Resources

(0.5-2 Units IND) Grade only
Transfers to: CSU

Individual research and special projects in Forestry and Natural Resources. Specific projects will be determined upon consultation with instructor.

Note: Students taking an independent study course must have an approved contract on file.

FNR-46 Technology and Applications in Natural Resources

(1 Units LAB) P/NP option
Transfers to: CSU

A lab-based overview of current technology and applications commonly used in forestry and natural resource professions. Students will explore the rapidly-changing technology used in the field and office and the software applications used to operate and manage the technology.

FNR-51 Dendrology: the Identification and Study Of Woody Plants

(3 Units LEC/LAB) P/NP option
Recommended Prep: ENGL-150
Transfers to: UC and CSU

The identification and classification of woody plants that occur in regional forest communities. Discussions will cover the technical language of plant taxonomy and nomenclature as well as botanical and ecological characteristics of trees. Lectures will also include important forest species found outside the region and across the U.S.

Note: Field trips may be required and the College does not provide transportation.

FNR-52 Introduction to Surveying

(4 Units LEC/LAB) Grade only
Prerequisite: MATH-380 with a minimum grade of "C".
Recommended Prep: ENGL-150
Transfers to: CSU

An introduction to the various techniques for planning and conducting land surveys. Lab exercises progress from compass and pacing through the use of Total Stations. Basic mapping exercises are conducted using field data. Discussions cover the theory of surveying, associated math principles, and the various methods of legal property description.

Note: Field trips may be required and the College does not provide transportation.

FNR-54 Introduction to Natural Resources Inventory Techniques

(3 Units LEC/LAB) Grade only
Recommended Prep: FNR-1 and MATH-15
Transfers to: CSU

An introduction to various techniques used in the measurement and inventory of natural resources. Topics include map reading and drawing, land navigation, tree measurement, sampling methods and data analysis. Students will work with a variety of biometric devices in field settings to gain practical experience in their application and use.

Note: Field trips are required and the College does not provide transportation.

FNR-58 Introduction to Remote Sensing Remote Sensing

(2 Units LEC/LAB) Grade only
Recommended Prep: ENGL-150 and MATH-380
Transfers to: CSU

An introduction to the interpretation and use of aerial photographs, electronically generated imagery, and remote-sensing data. Students will learn the theory and practice of gathering and examining remote-sensing data, the classification of land areas, and the measurement of ground-based objects from aerial photographs.

Note: Field trips may be required and the College does not provide transportation.

FNR-60 Forest Health and Protection

(3 Units LEC/LAB) P/NP option
Recommended Prep: FNR-1 and FNR-51; ENGL-150 or ENGL-102
Transfers to: CSU

A survey of forest health and application in local and regional ecosystems. Discussion topics include pest identification and pest complexes, disease symptoms and recognition, identification of abiotic disorders, and prevention strategies to protect forest values. Field Trips will showcase local forest health problems and protection techniques.

Note: Weekend field trips required and the College does not provide transportation.

FNR-65 Introduction to Geographic Information Systems

(3 Units LEC/LAB) P/NP option
Recommended Prep: CIS-1 and ENGL-150
Transfers to: UC and CSU

An introduction to the concepts and technology of Geographic Information systems (GIS). Students will learn the basic theory and application of spatial data and develop skills with computer software to analyze and display locational data.

FNR-66 Spatial Data Analysis in GIS

(3 Units LEC/LAB) P/NP option
Prerequisite: FNR-65
Recommended Prep: FNR-67
Transfers to: UC and CSU

A continuation of the introductory course to GIS and covers more advanced concepts of analyzing spatial data in Geographic Information Systems (GIS). Students will learn techniques for rectifying data sources, acquiring, structuring and importing data sets and developing more advanced queries and maps.

FNR-67 Introduction to Global Positioning Systems (GPS)

(1 Unit LEC/LAB) P/NP option
Transfers to: CSU

An introduction to the concepts and utility of Global Positioning System (GPS) technology. Students will explore how the system functions, how to gather, label, and transfer positional data, and how to plan missions for gathering data. Topics will also include limitations of GPS, differential correction techniques and integration with GIS databases.

Note: Field trips are required and the College does not provide transportation.

FNR-77 Introduction to Wildland Fire

(3 Units LEC) P/NP option
Transfers to: CSU

An introduction to wildland fire ecology, behavior and suppression. Discussions will include: the role of fire in ecosystems; fuels, weather and fire behavior; suppression, safety, tools, and strategies; fuel treatments; organizational structures and wildland fire careers.

Note: Field trips may be required and the College

does not provide transportation.

FNR-80 Introduction to Watershed Management

(3 Units LEC/LAB) Grade only
Recommended Prep: ENGL-150 and MATH-120
Transfers to: CSU

An introduction to hydrology and the science of managing watersheds. Topics include atmospheric inputs, run-off and erosion, storm-flow components, evapo-transpiration impacts and groundwater use. Students participate in field exercises on the evaluation and measurement of water resources.

Note: Field trips are required and the College does not provide transportation.

FNR-87 Wildlife Biology and Conservation Management

(3 Units LEC/LAB) P/NP option
Recommended Prep: ENGL-150 or ENGL-102
Transfers to: CSU

An introduction to the theories and applications of wildlife ecology and conservation. Lectures and discussions will include population dynamics, habitat requirements, animal behavior, and human interactions with wildlife. Field exercises include identifying wildlife species and habitat, as well as other common wildlife techniques.

Note: Field trips are required in adverse conditions; and the College does not provide transportation.

■ French [FRNC]

FRNC-1A Elementary French I

(4 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU

A beginning course that presents the fundamentals of French and provides the tools for students to acquire elementary linguistic proficiency. The course emphasizes the communicative use of all language skills: listening, speaking, reading and writing. Special emphasis is placed on providing insights into the cultural diversity of the French-speaking world.

FRNC-1B Elementary French II

(4 Units LEC) Grade only
Prerequisite: FRNC-1A
Recommended Prep: ENGL-150
Transfers to: UC and CSU

Continuation of French 1A. This course presents the fundamentals of French and provides the tools for students to acquire elementary linguistic proficiency. The course emphasizes the communicative use of all language skills: listening, speaking, reading, and writing. Special emphasis is placed on providing insights into the cultural diversity of the French-speaking world.

Note: This course is not appropriate for students who have taken and passed two or more years of French within the past three years.

■ General Studies [GS]

GS-1 College Success

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: CSU

A course designed to inform and assist students to obtain the knowledge and skills necessary to reach their educational objectives. Topics covered include: Self-discovery, motivation, memory development, time and stress management, text book reading, note and test-taking skills, healthy living practices, and career and academic planning. Students will be utilizing a wide variety of college resources, study

skills, and techniques to support their goals.

GS-6 First Year Experience

(3 Units LEC) Grade only
Recommended Prep: READ-360
Transfers to: CSU

A first year experience course focusing on the development of academic and personal skills necessary to succeed in college and beyond. Students will learn how to manage time, understand classroom dynamics, and improve note-taking and test-taking skills. Students will be able to identify campus services and understand the technology used in higher education. Students will be directed towards specific educational goals and develop a comprehensive student education plan.

■ Geography [GEOG]

GEOG-1 Introduction to Physical Geography

(3 Units LEC) P/NP option
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: GEOG 110

An introductory study of the Earth's physical systems, including the atmosphere, hydrosphere, and lithosphere. Students will study Earth's energy balance, climate, and landforms, and examine relationships between physical features and natural processes. Interactions between human endeavors and natural systems are explored to understand the influence of the environment and society on each other.

GEOG-2 Cultural Geography

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: GEOG 120

An introduction to the spatial distribution and organization of human activity. This includes an investigation of the relationship between cultural development and environmental influences. Students will explore the relationships of physical geography to the customs, arts, social institutions, and achievements of cultures. Topics include migration, population growth, economic development, urbanization, and energy demands.

■ Geology [GEOL]

GEOL-1 Physical Geology with Lab

(4 Units LEC/LAB) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: GEOL 101

An introductory study of physical geology with an emphasis on geologic principles and processes. The course explores the internal structure, processes, and origin of the Earth, and the processes of water, wind, gravity, and plate tectonics that contribute to the formation of the Earth's surface. The laboratory component focuses on the identification of rocks and minerals, the reading and interpretation of topographic and geologic maps, and field studies. Students will explore principles of mineral and rock formation, landform development, plate tectonics, volcanism, folding and faulting, and related topics.

Note: Field trips may be required and the College does not provide transportation.

GEOL-2 Historical Geology with Lab

(4 Units LEC/LAB) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: GEOL 111

An introduction to the geologic history of Earth, including past positions of tectonic plates, changes in the composition and structure of Earth's crust and

the development of environments and organisms. Concepts of age dating, sedimentary analysis and the analysis of sedimentary rocks and the fossils they contain are used to understand environmental and evolutionary changes throughout Earth's history. The laboratory component includes the study of rocks, fossils, geologic maps, and paleogeography to interpret ancient environments, tectonic settings, and geologic history. Age dating, the geologic time scale, extinction events, sedimentary environments, and correlation of rock and time units are also explored in the laboratory as a means of understanding the 4.6 billion years of Earth history.

Note: Field trips are required and the College does not provide transportation.

GEOL-10 Environmental Geology

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: GEOL 130

An introductory study of earth systems, earth materials and how earth processes impact human activities and how human activities influence the geological environment. Students will investigate geologic hazards, including landsliding, earthquakes, and volcanic activity, and make decisions concerning mitigating action. Students will also learn about water, mineral, and energy resources within the context of earth systems and consider issues of sustainability.

GEOL-15 Introduction to Earthquakes and Geologic Hazards

(3 Units LEC) P/NP option
Recommended Prep: ENGL-150
Transfers to: UC and CSU

An investigation of geologic and plate-tectonic processes and their relationships to faults, earthquake activity, mountain building, volcanism, landform development, and natural disasters. The course explores plate interactions and the connection to historic geologic disasters including earthquakes, tsunamis, and volcanic eruptions. Students will learn about hazard prediction, preparedness, and societal responses to living within a dynamic geologic environment.

■ German [GERM]

GERM-1A Elementary German I

(4 Units LEC) Grade only
Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153
Transfers to: UC and CSU

A beginning course that presents the fundamentals of German and provides the tools for students to acquire elementary linguistic proficiency. The course emphasizes the communicative use of all language skills: listening, speaking, reading, and writing. Special emphasis is placed on providing insights into the cultural diversity of the German-speaking world.

Note: This course is not appropriate for students who have taken and passed two (2) or more years of German within the past three years.

GERM-1B Elementary German II

(4 Units LEC) Grade only
Prerequisite: GERM-1A
Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153
Transfers to: CSU

Continuation of German 1A. This course presents the fundamentals of German and provides the tools for students to improve linguistic proficiency. The course emphasizes the communicative use of all four language skills: listening, speaking, reading, and writing. Special emphasis is placed on providing

insights into the cultural diversity of the German-speaking world

Note: This course is not appropriate for students who have taken and passed three (3) or more years of German within the past three years.

■ Guidance [GUID]

GUID-8 Career Planning

(2 Units LEC) P/NP option
Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153
Transfers to: CSU

A career planning course focusing on the development and exploration of career and major options. Students acquire skills in professional planning including job search techniques, resume writing, and interviewing. Emphasis is on individual self-assessment, self-reflection, career information, research skills, decision-making and goal-setting. This course is helpful to students who are undecided about a college major/career or considering a career change.

GUID-47 Leadership Development

(2 Units LEC) P/NP option
Transfers to: CSU

An introduction to the study of leadership. This course asks the essential questions, "What is leadership?" and "What does it take to be a leader?" Both classic and contemporary models are explored.

GUID-143 Individualized Assessment and Academic Planning

(0.5 Units LEC/LAB) P/NP only

An in-depth evaluation of learning disability as it is defined by Title V of the California Education Code for community colleges. Students will be assessed using psychometric tools to determine eligibility for accommodations and services. The course involves analysis and understanding of learning differences, the importance of the selection and application of effective learning strategies and the critical role of self advocacy in persons with a learning disability.

Note: Students must be referred from Disabled Students Programs and Services and be enrolled in at least one additional class at the College.

GUID-145 Applied Study Skills and Strategies

(1-4 Units LEC/LAB) P/NP only

Repeatability: Maximum of sixteen enrollments
Development and application of adaptive study strategies. Students receive one-on-one and small group instruction in study strategies designed to enhance success in mainstream coursework. Strategy-based learning is stressed in an effort to address a student's learning disability and/or learning difference. Independence and self advocacy are stressed throughout this lecture/lab course.

Note: Students must be enrolled in at least one mainstream class in order to enroll GUID-145.

GUID-146 Applied Study Skills & Strategies for English

(1-4 Units LEC/LAB) P/NP only

Repeatability: Maximum of sixteen enrollments
Development and application of adaptive study strategies for English skills. Students receive one-on-one and small group instruction in study strategies designed to enhance success in mainstream coursework in English and the humanities. Strategy-based learning is stressed in an effort to address a student's learning disability and/or learning difference. Independence and self advocacy are stressed throughout this lecture/lab course.

Note: Students must be enrolled in at least one

mainstream class in order to enroll in GUID-146.

GUID-147 Applied Strategies for Math

(1-4 Units LEC/LAB) P/NP only

Repeatability: Maximum of sixteen enrollments
 Development and application of adaptive study strategies for math. Students receive one-on-one and small group instruction in study strategies designed to enhance success in mainstream math related coursework. Strategy-based learning is stressed in an effort to address a student's learning disability and/or learning difference. Independence and self advocacy are stressed throughout this lecture/lab course.

Note: Students must be enrolled in at least one mainstream class in order to enroll in GUID-147.

GUID-148 Applied Study Skills/Strategies for Science

(1-4 Units LEC/LAB) P/NP only

Repeatability: Maximum of sixteen enrollments
 Development and application of adaptive study strategies for science. Students receive one-on-one and small group instruction in study strategies designed to enhance success in mainstream chemistry or biology coursework. Strategy-based learning is stressed in an effort to address a student's learning disability and/or learning difference. Independence and self advocacy are stressed throughout this lecture/lab course.

Note: Students must be enrolled in at least one mainstream class in order to enroll in GUID-148.

GUID-205 Supervised Tutoring

(0 Units TUT) Grade only

Repeatability: No limit to enrollments

A course that provides individual, supervised tutoring and learning support to supplement course-based learning activities in a variety of academic disciplines.
Note: Students register in Supervised Tutoring after referral by a counselor or an instructor on the basis of an identified learning need.

GUID-206 Basic Computer Skills for Students with Disabilities

(0 Units LEC/LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course designed for students with developmental or learning disabilities. Students will learn skills necessary for computer use.

GUID-207 Life Management and Career Preparation for Students with Disabilities

(0 Units LEC/LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course geared for students with developmental or learning disabilities. Students will learn to promote independence by learning everyday-living skills in such areas as nutrition, personal development, mental health, safety, and career preparation.

GUID-208 Functional Money Skills for Students with Disabilities

(0 Units LEC/LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course designed for students with developmental or learning disabilities. Students learn skills necessary for performing accurate money exchanges, including counting money and solving real-life shopping problems involving money.

GUID-209 Social Opportunities for Students with Disabilities

(0 Units LEC/LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course designed to help students with disabilities learn how to create social lives for themselves. Students learn how to meet people, engage in discussion, make friends, identify low-cost activities, participate in age-appropriate games with guests, practice social manners, as well as plan and carry out a social event.

GUID-210 Survival Vocabulary and Basic Literacy for Students with Disabilities

(0 Units LEC/LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course designed for adults with disabilities to learn survival vocabulary, reading, and writing skills.

GUID-211 Community Resources for Students with Disabilities

(0 Units LEC/LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit class for students with developmental or learning disabilities. Students will learn skills necessary to independently take part in typical community activities by traveling to various area locations. Lessons learned in the classroom will be practiced in the community.

GUID-212 Ready, Set, Go to College

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course designed to assist students in their educational planning and determination of academic direction. Students will complete online orientations to applicable special programs and/or services on campus as well as participate in face to face discussion and online orientation to the college.

GUID-213 Explore Your Career Options

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course for students who are undecided about their career path, and would like guidance to discover good academic choices. Students will survey their interests and skills, and connect that information to career options. Researching and using campus resources, students will evaluate options and create a noncredit student education plan.

GUID-214 College Orientation

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course designed to help new students transition successfully to a college environment. Students will explore the roles and expectations of the student, faculty, and college. They will learn about student supportive programs and services and the important skills required for success. Specific topics include how to access student information online, what academic programs and degrees are available, how to transfer, and how to resolve problems with instructors. Students will also develop an educational goal.

GUID-215 Education Plan Development

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course preparing students to develop an education plan with an emphasis on educational goals specific to their chosen career. Students will explore career options and major pathways at College of the Redwoods. Topics include course sequence planning, general education patterns, unit and hour requirements, and familiarization with online tools and the college catalog. Students will meet with both faculty and counselors or academic advisors, so they are fully prepared to meet requirements in their specific area of study and successfully complete educational goals.

GUID-220 Success Strategies to College

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course providing students with important information and strategies on how to maintain good academic standing in college. Students will learn about academic probation, academic dismissal, building an action plan, and general tips for success. The focus is on understanding the obstacles and challenges in order to build a plan for success.

GUID-244 Living Well on Any Income

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course preparing people for personal financial responsibility. This course will provide the necessary skills to be successful financially and live well on any income. The focus will be on setting priorities, spending habits, budgeting, debt management, and how to afford the things you want.

GUID-245 Feel Good and Stay Healthy

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course in personal health and wellness. Topics such as diet, exercise, sleep habits, illness prevention, stress management, sexual health, emotional well-being and how to stay safe will be discussed and explored.

GUID-250 Building a Cooperative Family

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course to help family members communicate more effectively by providing them with information and opportunities to practice positive communication techniques in a safe environment. Students will learn conflict-resolution skills and negotiating techniques through creative role play. Topics include open communication, anger management, and community building.

GUID-254 The Role of Father in Parenting

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course that focuses on the father's role in parenting children. Topics will include characteristics of children in specific age groups, discipline and setting limits, family health and safety.

GUID-275 Boots to Books

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course preparing veterans, active military and their dependents to transition successfully from military to college life. Topics include career exploration, goal setting, identifying skills that lead to success in college, and making the most of Veterans Support Services and the GI Bill.

GUID-276 Roadmap to Resiliency

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course helping students to learn skills to be more resilient in order to nurture personal, academic and professional development. Topics include how to adapt to physical, social and emotional stress and face difficult experiences with more confidence and less anxiety. Students will learn how to utilize effective coping strategies, make realistic plans, develop confidence in their strengths and abilities, communicate effectively, and manage strong impulses and feelings that may interfere with successful completion of educational, professional and life goals.

■ Health [HLTH]

HLTH-207 First Aid/CPR/AED

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A course to help students recognize and respond appropriately to cardiac, breathing, and first aid emergencies. This course teaches the skills that students need to know to give immediate care to a suddenly injured or ill person until more advanced medical personnel arrive and take over.

Note: Fee in the range of \$10-\$20 if certificate of completion needed.

HLTH-230 Eating for a Healthy Life

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A course in personal nutrition. Students will learn how to choose nutritious foods, create nutrient rich meals, and eat according to their lifestyle needs.

■ Health Education [HE]

HE-1 Health Education

(3 Units LEC) Grade only
Transfers to: UC and CSU

An introduction to a broad range of lifestyle components and personal choices which have a direct relationship to the students overall lifetime wellness. Some of the concepts discussed include principles of health and wellness, stress modifications, weight management, exercise principles, personal health responsibility, major diseases, and relationships.

HE-2 Women's Health Issues

(3 Units LEC) P/NP option
Transfers to: UC and CSU

A course focusing on the factors that affect women's health and well-being. Issues of women's diseases and disorders, hormonal influences on overall health, as well as heart and bone health will be discussed. Emphasis is placed on students making informed choices and decisions related to their overall wellness.

HE-7 Emergency Response: First Aid/CPR/AED

(3 Units LEC) P/NP option
Transfers to: UC and CSU
C-ID: KIN 101

A course designed to teach theory and detailed demonstration of the first aid/CPR/AED care of the injured. This includes an assessment and intervention of an individual's condition and incorporation of proper treatment. Standard American Red Cross first aid, CPR, and AED certification granted upon successful completion of requirements.

Note: In order to receive a course completion certification from the American Red Cross, students need to be physically able to perform lab skills.

HE-8 Emergency Response: First Aid/CPR/AED Recertification

(0.5 Units LEC) Pass/No Pass only
Prerequisite: Prior First Aid/CPR/AED certification
Transfers to: CSU

This course is designed to recertify individuals who have already received the necessary training to become certified in First Aid/CPR/AED. Participants will be asked to demonstrate proper skills required during emergency medical situations.

Note: In order to receive a course completion certificate from the American Red Cross, students need to be physically able to properly perform and demonstrate rescue skills.

■ Health Occupations [HO]

HO-15 Nutrition

(3 Units LEC) Grade only
Recommended Prep: ENGL-350 and MATH-376
Transfers to: UC and CSU
C-ID: NUTR 110

A study of nutrient requirements for healthy living in adults. Course covers digestion, absorption, metabolism and function of macronutrients, micronutrients and alcohol. This course covers nutritional needs across the life span, the health implications associated with nutrition, food safety concerns and controversial aspects of human nutrition.

HO-110 Basic Patient Care

(6 Units LEC/LAB) Grade only

A course in providing safe, effective, and efficient direct patient care, emphasizing the role of the nurse assistant as a member of the health care team. The components of the course are as required by the regulations and include asepsis, infection control, and assisting the nurse to provide holistic care to the client(s). Upon completion of the course, if all other external requirements are met, the student will be eligible to that the nurse assistant certification exam in California.

Note: 1) Physical exam clearance, including required immunizations and evidence of no communicable disease completed on the approved CR forms. 2) Must attend course orientation and complete all required admission paperwork prior to beginning course. 3) Background check required. 4) Drug screening may be required by clinical sites.

HO-151 Medical Terminology

(3 Units LEC) Grade only
Recommended Prep: ENGL-350 and MATH-276

An introduction to medical terminology and the structure of medical words including prefixes, suffixes, roots and combining forms. Course includes study of pronunciation, spelling and definitions of medical terms as well as anatomical, pathological and surgical terminology as related to the body systems.

Note: Course is open to non-majors.

HO-159 Emergency Medical Technician

(6 Units LEC/LAB) Grade only

A study of basic prehospital emergency medicine to meet State of California requirements for EMT training. Students will learn to properly assess, stabilize, treat, and transport patients experiencing medical and trauma emergencies in the prehospital setting. This course includes clinical observation experience with an ambulance service and in a hospital emergency department. Course completion will allow students to take the National Registry examination for EMT certification.

Note: Requirements include: Proof of communicable disease immunity and background check clearance; and American Heart Association BLS for Healthcare Providers, American Red Cross CPR for the Professional Rescuer, Medic First Aid Basic Life Support for Professionals, or equivalent CPR certification. Off-campus meetings are required. Must be 18 years old to be eligible for National Registry and state certification. May take the state certification exam within one year of course completion. Fees for National Registry testing and state certification are additional.

HO-170A North Coast Paramedic 1

(11 Units LEC/LAB) P/NP option
Prerequisite: HO-159
Recommended Prep: ENGL-150 and MATH-380

The first course in a comprehensive study of pre-

hospital emergency medicine to meet State of California requirements for an Emergency Medical Technician-Paramedic license. The course meets accreditation requirements of the Committee on Accreditation of Educational Programs for the EMS Professions (CoAEMSP). The course will teach pre-hospital emergency medical care at the advanced life support (ALS) level in accordance with the National Highway Traffic Safety Administration's National EMS Education Standards.

Note: To be eligible to enter a paramedic training program an individual shall meet the following requirements: (1) Possess a high school diploma or general education equivalent; and (2) possess a current basic cardiac life support card according to the Guidelines 2000 for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care at the healthcare provider level; and (3) possess a current EMT-I certificate or NREMT-Basic registration; or (4) possess a current EMT-II certificate in the State of California; or (5) be currently registered as an EMT-Intermediate with the National Registry of Emergency Medical Technicians; (6) pass an entrance exam which evaluates knowledge and skills at the EMT-I level.

HO-170B North Coast Paramedic 2

(13 Units LEC/LAB) Grade only
Prerequisite: HO-170A
Recommended Prep: ENGL-150 and MATH-380

The second course in a comprehensive study of pre hospital emergency medicine to meet State of California requirements for an Emergency Medical Technician-Paramedic license. The course meets accreditation requirements of the Committee on Accreditation of Educational Programs for the EMS Professions (CoAEMSP). The course will teach pre-hospital emergency medical care at the advanced life support (ALS) level in accordance with the National Highway Traffic Safety Administration's National EMS Education Standards.

HO-170C North Coast Paramedic Program 3

(1-8 Units LAB) P/NP only
Prerequisite: HO-170B

The third course in a comprehensive study of pre-hospital emergency medicine to meet State of California requirements for a paramedic license. Under the direct supervision of a licensed paramedic, students will begin a field internship experience on a designated advanced life support unit. This course allows the student patient care experience in the pre-hospital environment.

HO-170D North Coast Paramedic Program 4

(1-8 Units LAB) P/NP only
Prerequisite: HO-170C

The fourth and final course in a comprehensive study of pre-hospital emergency medicine to meet State of California requirements for a paramedic license. Under the direct supervision of a licensed paramedic, students will complete a field internship experience on a designated advanced life support unit. This course allows the student patient care experience in the pre-hospital environment.

HO-250 Medical Scribe

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A course preparing students with the knowledge and skills necessary to be a medical scribe. Medical scribes work in high-demanding patient care settings. The course will cover the duties and responsibilities of the job, medical terminology, HIPAA compliance, electronic health records, and the basics of coding and billing.

HO-261 Home Health Aide

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A short-term course providing training and instruction in the skills required to be a Home Health Aide. The course prepares active Certified Nursing Assistants to deliver safe and appropriate health care services to clients in a home or assisted living environment. The focus is on personal care services, interpreting physical and emotional needs, housekeeping, nutrition, and meal-planning.

■ History [HIST]

HIST-4 Western Civilization to the Reformation

*(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: HIST 170*

An exploration of the evolution of civilization in the greater Mediterranean region from the development of Paleolithic and Neolithic societies in the Ancient Near East through the Renaissance/Reformation in Europe. Students will examine the multicultural roots of basic institutions, practices, and ideas of Western civilization, such as monotheism, the scientific method, capitalism, and colonialism. Special attention will be paid to changing configurations of political, social, economic, and ideological power, and the region's developing ties to the Atlantic world.

HIST-5 Western Civilization ca. 1600 to the Present

*(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: HIST 180*

An introduction to the development of the "West" from the era of Absolutism to the present. A central theme will be how a weak and fragmented western Europe became a major influence in the world, strongly identified with modernity, technology, and expanding economic, political, cultural, and social systems. Students will investigate the increasing power of the nation-state and systems of empire, and the ways in which ideas of race, class, and gender played a part in this evolution. Special attention will be paid to the evolution of ideologies, such as capitalism, imperialism, communism, and globalization.

HIST-6 The Vietnam War Era

*(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU*

An examination of the history of U.S. involvement in Vietnam and the fractured U.S. homefront during the period of U.S. involvement overseas. The class will provide an in-depth analysis of the years of deepest U.S. involvement in the War, 1954-1975, and also emphasize the social, cultural, and political movements that emerged in the United States at that time.

HIST-7 History of Modern Asia

*(3 Units LEC) Grade only
Recommended Prep: ENGL-150 or ENGL-153 or ENGL-102
Transfers to: UC and CSU*

A survey of the political, social, and cultural history of the Asian Pacific Rim countries from the 18th century to the present, with emphasis on their relations with Europe and the United States. The course examines the impact of western culture on China, Japan, and other selected areas of East and Southeast Asia and these countries' involvement in the international community. The major political movements of the twentieth century, nationalism and communism, are studied.

HIST-8 US History Through Reconstruction

*(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: HIST 130*

An exploration in the history of the United States from the original inhabitants of the North American continent to the end of the Reconstruction period after the American Civil War. Of special importance is how the social, political, diplomatic, cultural, economic, and technological/scientific relations and institutions changed over time. The course will also introduce students to the nature of historical interpretation and how to interpret sources written during the historical time periods investigated in the class.

HIST-9 US History Reconstruction to the Present

*(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: HIST 140*

An exploration in the history of the United States from the Reconstruction period after the Civil War to the present. Of special importance is how the social, cultural, political, diplomatic, technological/scientific, and economic relations and institutions changed over time. The course will also introduce students to the nature of historical interpretation and how to interpret sources written during the historical time periods investigated in the class.

HIST-11 History of Women in America: Pre-Contact to 1877

*(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU*

An in-depth historical study of the social, cultural, political, and economic developments in North America from the perspective of women, from the period just prior to European contact through the end of Reconstruction. Special emphasis is placed upon the varying ways in which women of diverse classes, races, and ethnicities have both contributed to and been affected by the larger historical patterns in U.S. history. The course will introduce students to the nature of historical interpretation, enable students to interpret sources written during the historical time periods investigated in the class, and familiarize students with gender-related issues in the American past.

HIST-12 History of Women in America: 1877-Present

*(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU*

An in-depth historical study of the social, cultural, political, and economic developments in the United States from the perspective of women, from Reconstruction to the present. Special emphasis is placed upon the varying ways in which women of diverse classes, races, and ethnicities have both contributed to and been affected by the larger historical patterns in U.S. history.

HIST-20 World History: Prehistory to 1500 CE

*(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: HIST 150*

An overview of the world from prehistory to 1500 CE. This course examines the cultures, social structures, politics, religions, and economic development of human societies throughout the world. Particular attention is paid to human migrations, to the effects of cultural adaptation and diffusion, and to the evolution of civilizations around the globe.

HIST-21 World History: 1500 CE- Present

*(3 Units LEC) Grade only
Recommended Prep: ENGL-150 or ENGL-102
Transfers to: UC and CSU
C-ID: HIST 160*

An overview of world history from 1500 CE to the present. The cultures, politics, religions, and economic development of societies and civilizations throughout the world are examined. Particular attention is paid to the effects of colonialism and nationalism on the world stage, and the periodic crises that reshaped the links among societies and within civilizations.

■ Industrial Technology [IT]

IT-25 OSHA General Industry Safety Management

*(3 Units LEC) P/NP option
Recommended Prep: MT-10 or WAT-20 or AT-12 or CT-15
Transfers to: CSU*

A study of the principles and practices of safety in the work place. Coverage includes the components of safety programs plus federal and state laws/standards enacted to improve the safety of workers, the work place, and the environment.

IT-60A Basic Manufacturing Print Reading

*(3 Units LEC) Grade only
Transfers to: CSU*

This course will cover blueprint reading for the metals field which will include the symbols and interpretation necessary to construct, machine, and inspect machined parts and assemblies. Also covered will be the necessary mathematical calculations for decimals, fractions, and right triangle measurements. In-depth coverage of the geometric dimensioning system with emphasis on calculations of maximum (MMC) and minimum material condition (LMC) as they relate to manufacturing processes is also included.

IT-60B Machine Parts Print Reading

*(3 Units LEC) Grade only
Prerequisite: IT-60A
Transfers to: CSU*

Continuation of blueprint reading for the manufacturing field, especially machined parts. This course expands the terminology and basic techniques acquired in IT-60A to interpretation of advanced blueprints using authentic blueprints from industry.

IT-88A Introduction to Industrial Robotics

*(3 Units LEC/LAB) Grade only
Transfers to: CSU*

An introductory course in industrial robots. Students will learn to program, set up, and operate industrial robot arm equipment, including interfacing robot control systems and various sensors and peripherals. Topics will include structured programming of pick and place routines, manufacturing simulations, automated assembly, as well as interfacing robots with vision systems.

IT-125 OSHA Ten Hour General Industry Safety

(0.5 Units LEC) P/NP only

A ten hour awareness course in general industry safety. Using OSHA standards as a guide, students will receive instruction in general industry safety and health principles. Special emphasis is placed on those areas that are the most hazardous. Topics include but are not limited to: OSH Act, Focus Four, Fall Protection, Personal Protective Equipment, Stairs and Ladders, Bloodborne Pathogens, Medical and First Aid, Walking and Working Surfaces, Hazard Communications and Occupational Health.

Note: Students that successfully complete this

course will receive an OSHA 10 hr. card from the U.S. Department of Labor.

IT-152 Technical Computer Applications Lab

(1 Unit LAB) Grade only

A special studies course related to computer applications in applied technology courses. This lab will provide individualized instruction in a self-paced lab environment. Coursework specific to a student's program of study will be assigned and evaluated

IT-225 OSHA 10 Hour General Industry Standards Management

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A course that satisfies the 10 hour OSHA awareness requirement in general industry standards. Using OSHA standards as a guide, students will receive instruction in general industry safety and health principles. Special emphasis is placed on those areas that are the most hazardous. Topics include OSH Act, Focus Four, fall protection, personal protective equipment, bloodborne pathogens, first aid, walking/working surfaces, hazard communications and occupational health.

Note: Students who successfully complete this course are eligible to receive an OSHA 10 Hour card from the U.S. Department of Labor. The cost of this optional card is approximately \$7.

IT-252 Technical Computer Applications Lab

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A course related to computer applications in applied technology courses. This lab will provide individualized instruction in a self-paced lab environment. Coursework specific to a student's area of study will be assigned and evaluated.

IT-260 Design and Production of a Solid Body Electric Guitar

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A course designed to guide students through the design and construction of a custom solid body electric guitar. Students will learn to use CAD tools, manual and CNC woodworking processes, specialty luthier tools, testing and measurement processes, and electronics assembly to complete their own custom guitar. The tools and procedures for proper guitar set-up and adjustment will be covered. Students do not need to know how to play guitar.

Note: The course fee will cover standard materials, finishes, and components of the guitar. Students who do not complete their guitar are not entitled to a refund of any part of the fee.

■ Kinesiology [KINS]

KINS-64 Concepts of Strength Training

(3 Units LEC) P/NP option

Transfers to: UC and CSU

A science-based application and examination of strength training with an emphasis on designing individual strength training programs. Students will explore and examine how the body responds and adapts to various strength training lifts, programs and modalities of instruction.

KINS-65 Foundations of Kinesiology

(3 Units LEC) Grade only

Transfers to: UC and CSU

C-ID: KIN 100

A course designed to familiarize students with the fields of kinesiology, exercise science, and sport studies. Students will examine the systems, dynamics,

and principles involved in human development and physical activity within the context of society. An emphasis will be placed on relevant experience, research, and professional practice. In addition, students will discuss current issues and areas of career opportunities.

KINS-66 Concepts of Physical Fitness and Exercise

(3 Units LEC) Grade only

Transfers to: UC and CSU

A course designed to introduce individuals to physical fitness, exercise prescription, skill development, health & fitness assessment, rehabilitation of injuries and body mechanics. In addition, nutritional plans are introduced that relate to athletic performance and healthy weight management. The value of life-long fitness as the main factor in the reduction of degenerative diseases is emphasized throughout the course.

KINS-68 Care and Prevention of Sports Injuries

(3 Units LEC) Grade only

Recommended Prep: BIOL-1 and BIOL-6

Transfers to: UC and CSU

A course in the care and prevention of sports injuries. Intended for exercise enthusiasts and students interested in coaching, physical education, athletic training and the fitness profession, this course provides basic information on a variety of topics relating to health care for physically active and competitive athletes.

■ Library [LIBR]

LIBR-5 Research Skills

(1 Unit LEC) P/NP option

Recommended Prep: ENGL-150 and CIS-1 or CIS-100

Transfers to: CSU

Introduction to academic research skills and practice. Students will learn how to find, evaluate, use, analyze, and correctly cite information in a variety of print and online formats. This class is designed to teach and strengthen life-long research and information literacy skills. Students will learn research skills required for term papers or presentations for transfer-level classes or for personal research projects.

■ Licensed Vocational Nursing [LVN]

LVN-110A Pharmacology - Vocational Nursing I

(2 Units LEC) Grade only

Prerequisite: LVN-111 and LVN-121

Recommended Prep: ENGL-150 and MATH-380

An introductory course in the principles of pharmacology for vocational nursing. This course focuses on the responsibilities of the Licensed Vocational Nurse and the nursing implications for major drug classifications across the lifespan. The role of the vocational nurse within RN established nursing process guidelines and client education will be delineated and integrated throughout the course.

Note: Admission to the LVN program is required.

May be taken for LVN continuing education with permission of the instructor.

LVN-110B Pharmacology - Vocational Nursing II

(2 Units LEC) Grade only Prerequisite: LVN-110A and

LVN-121 and LVN-111

Corequisite: LVN-118 and LVN-122

Continued study of pharmacological principles and the responsibilities of the Licensed Vocational Nurse in medication administration to clients across the life span. Nursing considerations for major drug classifications are covered. Legal and cultural implications and patient teaching are integrated throughout the

course.

Note: Admission to the LVN program is required. May be taken for LVN continuing education with permission of the instructor.

LVN-111 LVN Fundamental Pharmacology Skills

(0.5 Units LAB) Grade only

Corequisite: LVN-110A and LVN-121

Recommended Prep: ENGL-150 and MATH-380

A Pharmacology Skills course stressing accuracy in measurements, basic math and dosage calculations. Preparation and administration of medications to clients of all ages via various routes except intravenous are covered. Performance evaluations are a large portion of this course.

Note: Admission to the LVN program is required.

LVN-118 Psychology for Vocational Nursing

(2 Units LEC) Grade only

Prerequisite: LVN-121

A foundation course in psychiatric-mental health nursing. Students will learn how to gather and assess information relevant to the mental health status of clients. In addition, they will apply concepts of mental health nursing and therapeutic communication to patient care.

LVN-121 Nursing of Adults and Children I

(6.5 Units LEC/LAB) Grade only

Prerequisite: HO-110

Corequisite: BIOL-8 and HO-15 and LVN-110A and

LVN-111

Recommended Prep: ENGL-150 and MATH-380

The first of three courses for Vocational Nursing students in the care of adults and children. The role and legal/ethical responsibilities of the vocational nurse and principles of health, illness and disease are covered. Nursing care of the elderly and the terminally ill are presented. Common body system disorders are discussed. Application of skills and concepts takes place in the clinical setting and in Simulation Lab.

Note: Admission to the LVN program is required.

LVN-122 Nursing of Adults and Children II

(13 Units LEC/LAB) Grade only

Prerequisite: BIOL-8 and HO-15 and LVN-110A and

LVN-111 and LVN-121

Corequisite: LVN-110B and LVN-118.

Recommended Prep: ENGL-150 and MATH-380

This is the second of three courses for Vocational Nursing students in the care of adults and children. A continuation of the body systems is covered. Students participate in at least 18 hours of clinical a week.

Note: Current CPR certification. Student must meet physical examination requirements for clinical practice.

LVN-123 Nursing of Adults and Children III

(13 Units LEC/LAB) Grade only

Prerequisite: LVN-110B and LVN-118 and LVN-122

Recommended Prep: MATH-380

The final course in the care of adults and children for vocational nursing students. Maternal-child health and pediatrics are the major focus. Concepts in leadership and management for the LVN are discussed.

Note: Current CPR certification required. Students must pass physical examination requirements for clinical practice.

■ Manufacturing Technology [MT]

MT-10 Fundamentals of Manufacturing Technology

(3 Units LEC/LAB) Grade only

Transfers to: CSU

An introductory course in the basic concepts of man-

ufacturing and the operation of machine tools. Students will learn how to set up and operate industrial machine tools to produce machine parts accurately and efficiently. Topics include machining principles, the use of precision measuring instruments, and how to calculate machine feeds and speeds.

MT-11 Advanced Manufacturing - Turning

(4 Units LEC/LAB) Grade only

Prerequisite: MT-10 or concurrent enrollment
Transfers to: CSU

An advanced course in manual turning and precision grinding machine concepts. Students will learn how to set up and operate engine lathes and precision grinders to produce machine parts accurately and efficiently. Topics include turning and grinding machine theory, operation, tooling, and accessories.
Note: MT-10 can be taken as a prerequisite or concurrently with MT-11.

MT-12 Advanced Manufacturing - Milling

(4 Units LEC/LAB) Grade only

Prerequisite: MT-10 or concurrent enrollment or concurrent enrollment in MT-10 required.

Transfers to: CSU

An advanced course in manual milling machine concepts. Students will learn how to set up and operate horizontal and vertical milling machines to produce machine parts accurately and efficiently. Topics include milling machine principals, milling cutters, machine fixtures, workpiece indexing, and gear manufacturing.

Note: MT-10 can be taken as a prerequisite or concurrently with MT-12.

MT-13 Advanced Manufacturing Processes

(4 Units LEC/LAB) Grade only

Prerequisite: MT-10

Recommended Prep: MT-12 and MT-54B and MT-59B

Transfers to: CSU

An advanced course covering the latest processes and technologies at the high-end of manufacturing. Course work includes computer controlled (CNC) multi-axis manufacturing, CNC lathe programming and operation, industrial robotics programming and operation, additive manufacturing systems, and industrial laser systems.

MT-40 Independent Study in Manufacturing Technology

(0.5-2 Units IND) Grade only

Transfers to: CSU

Individual research and special projects in Manufacturing Technology. Specific projects will be determined upon consultation with instructor.

Note: Students taking an independent study course must have an approved contract on file.

MT-42 Cooperative Education Work Experience in Manufacturing Technology

(0.5-8 Units LAB) P/NP only

Repeatability: Maximum of three enrollments

Transfers to: CSU

A course designed to assist students in accomplishing learning objectives directly related to their Manufacturing Technology career goals or college course work in a supervised work environment that extends classroom-based occupational learning to an on-the-job learning situation. To participate in this course, the student's placement and course objectives must be related to their career goals or college course work.

Note: Students must meet with the Cooperative Work Experience (CWE) Coordinator before they can be enrolled in MT-42. During fall and spring,

students must be enrolled in at least 7 units (including CWE) to enroll in CWE. If enrolling in the summer, students must have been enrolled in at least 12 units (including CWE) in the previous spring semester. Students must take primary responsibility in finding a work experience opportunity and are strongly advised to find such an opportunity before enrolling in the class. Some employers or programs may require fingerprinting, drug testing, and/or background checks. Students should be advised that a maximum of 9 units can be applied toward a degree. Students may enroll a total of 3 times (repeatable twice). Variable 0.5 to 8.0 units, based on 37.5-600 work lab hours per semester.

MT-52 Introduction to Metallurgy and Material Science

(3 Units LEC/LAB) Grade only

Transfers to: CSU

A course in ferrous and nonferrous metals as related to industry. Students will study metals from the ore state to manufactured products. Iron-carbon and time temperature transformation diagrams will also be covered. The course includes coordinated lab experience in specimen heat treating, tensile testing, and microscopic examination. In addition, other materials of Industry will be discussed.

MT-54A Introduction to Computer Numerical Control

(4 Units LEC/LAB) Grade only

Recommended Prep: MT-10

Transfers to: CSU

An introductory course in Computer Numerical Control (CNC) machining. Students will learn to program, set up, and operate CNC machine tools including vertical machining centers. This course will introduce industry standard programming protocols, machine specific parameters, and applications for CNC systems in the manufacturing industry.

MT-54B Computer Numerical Control Machining

(4 Units LEC/LAB) Grade only

Prerequisite: MT-54A

Transfers to: CSU

An advanced course in Computer Numerical Control (CNC) machining. Students will learn to program, set-up, and operate industry standard CNC machine tools including turning centers and machining centers. This course will cover industry standard programming protocols, machine specific parameters, and applications for CNC systems in the manufacturing industry.

MT-54L Computer Numerical Control Lab

(2 Units LAB) Grade only

Prerequisite: MT-54A

Transfers to: CSU

An advanced course in Computer Numerical Control (CNC) machining. Students will learn to program, set-up, and operate industry standard CNC machine tools including turning centers and machining centers. This course will cover industry standard programming protocols, machine specific parameters, and applications for CNC systems in the manufacturing industry.

MT-59A Mastercam 2-D Programming

(4 Units LEC/LAB) Grade only

Transfers to: CSU

A beginning course in computer-assisted design and drafting, and computer-assisted manufacturing (CADD/CAM) using Mastercam software. Students will use basic computerized drafting techniques, create virtual solid models, produce models on rapid prototyping systems, and develop tool path programming for computerized machine tools. This course covers fundamental applications for CADD/CAM systems in the manufacturing industry.

MT-59B Mastercam 3-D Programming

(4 Units LEC/LAB) Grade only

Prerequisite: MT-59A

Transfers to: CSU

An advanced course in computer-assisted manufacturing, using Mastercam software. Students will learn three-dimensional computerized drafting techniques to create complex surfaces and solid models, tool path programming for advanced multi-axis machine tools, and applications for CAM systems in manufacturing.

MT-230 Introduction to Mechatronics

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

An entry-level, noncredit course introducing the knowledge and skills needed to design, manufacture, maintain, troubleshoot, and repair mechatronics systems. A variety of topics will be covered including problem solving, mechanical systems, electricity, electronics, robotics, fluid power, applied mathematics, and work readiness skills. Instructional training will include computer-based classroom activities.

Mathematics [MATH]
MATH-4 MATLAB Programming

(3 Units LEC) Grade only

Prerequisite: MATH-25 and MATH-30

Recommended Prep: Previous or concurrent enrollment in MATH-50A, ENGL-150

Transfers to: UC and CSU

An introduction to programming in MATLAB, with emphasis on programming applications in science, mathematics, and engineering.

Note: Students may work in campus computer labs to complete their assignments. Students wishing to work on assignments on their home computers must purchase the Student Edition of MATLAB.

MATH-5 Contemporary Mathematics

(3 Units LEC) Grade only

Prerequisite: MATH-120 or MATH-194

Transfers to: CSU

An approved CR and CSU General Education math course for liberal arts students that provides social and historical context from the arts and sciences. Topics are chosen by the instructor and can include geometry, fractals, counting and probability, linear and exponential models, finance, statistics, voting methods and other contemporary topics of interest.

Note: Graphing calculator required; TI-83 or TI-84 recommended.

MATH-5L Math Lab for Contemporary Mathematics

(0.5-1 Unit LAB) P/NP only

Transfers to: CSU

A course which offers instructional support for students taking Contemporary Mathematics (MATH-5), given in a self-paced lab environment. Students receive one-on-one and small-group instruction designed to enhance success in MATH-5.

Note: Students should be enrolled in MATH-5.

MATH-15 Introduction to Statistics

(4 Units LEC) Grade only

Prerequisite: MATH-120 or MATH-194 or MATH-102

Recommended Prep: ENGL-150 or ENGL-102

Transfers to: UC and CSU

C-ID: MATH 110

The study of statistical methods as applied to descriptive statistics and inferential statistics. An emphasis on the meaning and use of statistical significance will be central to the course. Students will use probability techniques to make decisions via hypothesis testing

and will estimate parameters using confidence intervals. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlations 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 statistical findings. The course includes applications using data from disciplines including business, social sciences, psychology, life science, health science, and education.

Note: A TI-83 or TI-84 graphing calculator is required.

MATH-15L Math Lab for Introduction to Statistics

(0.5-1 Unit LAB) P/NP only

Transfers to: CSU

A course which offers instructional support for students taking Introduction to Statistics (MATH-15), given in a self-paced lab environment. Students receive one-on-one and small-group instruction designed to enhance success in MATH-15.

Note: Students should be enrolled in MATH-15.

MATH-25 College Trigonometry

(4 Units LEC) Grade only

Prerequisite: MATH-120

Transfers to: CSU

A study of trigonometric functions, radian measure, solution of right triangles, graphs of the trigonometric functions, inverse trigonometric functions, trigonometric identities and equations, laws of sines and cosines, solution of oblique triangles, polar coordinates, complex numbers in trigonometric form, De Moivre's theorem, and conic sections.

Note: A graphing calculator is required.

MATH-25L Math Lab for College Trigonometry

(0.5-1 Unit LAB) P/NP only

Transfers to: CSU

A course which offers instructional support for students taking College Trigonometry (MATH-25), given in a self-paced lab environment. Students receive one-on-one and small-group instruction designed to enhance success in MATH-25.

Note: Students should be enrolled in MATH-25.

MATH-30 College Algebra

(4 Units LEC) Grade only

Prerequisite: MATH-120 or MATH-194

Recommended Prep: MATH-303

Transfers to: UC and CSU

C-ID: MATH 151

College level course in algebra for majors in science, technology, engineering, and mathematics: polynomial, rational, radical, exponential, absolute value, and logarithmic functions; systems of equations; theory of polynomial equations; analytic geometry.

Note: Graphing calculator required, TI-83 or 84 recommended.

MATH-30L Math Lab for College Algebra

(0.5-1 Unit LAB) P/NP only

Transfers to: CSU

A course which offers instructional support for students taking College Algebra (MATH-30), given in a self-paced lab environment. Students receive one-on-one and small-group instruction designed to enhance success in MATH-30.

Note: Students should be enrolled in MATH-30.

MATH-45 Linear Algebra

(4 Units LEC) Grade only

Prerequisite: MATH-50A

Recommended Prep: MATH-50B

Transfers to: UC and CSU

C-ID: MATH 250

A course which develops the techniques and theory needed to solve and classify systems of linear equations. Solution techniques include row operations, Gaussian elimination, and matrix algebra. Properties of vectors are investigated 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.

Note: Computer exploration is an integral component of this course. Students will also create and present oral and written analyses of a topic that requires use of the concepts and techniques learned in this course.

MATH-50A Differential Calculus

(4 Units LEC) Grade only

Prerequisite: MATH-25 and MATH-30

Transfers to: UC and CSU

C-ID: MATH 210

A study of limits, continuity, and derivatives of algebraic, transcendental, and trigonometric functions. Applications of the derivative include optimization, related rates, examples from the natural and social sciences, and graphing of functions. The course introduces the integral and the connection between the integral and derivative.

Note: A graphing calculator is required.

MATH-50B Integral Calculus

(4 Units LEC) Grade only

Prerequisite: MATH-50A

Transfers to: UC and CSU

C-ID: MATH 220

The second in the series of three calculus courses. Integral Calculus develops a set of advanced symbolic and numerical integration techniques, building on skills developed in the first course in the series, Differential Calculus. The course includes applications of integration, sequences and series, and the use of the Taylor polynomial to approximate functions. Students are introduced to parametric and polar equations.

Note: A graphing calculator is required.

MATH-50C Multivariable Calculus

(4 Units LEC) Grade only

Prerequisite: MATH-50B

Transfers to: UC and CSU

C-ID: MATH 230

The third in the series of three calculus courses. Multivariable Calculus applies the techniques and theory of differentiation and integration to a thorough study of vectors in two and three dimensions, vector-valued functions, calculus of functions of more than one variable, partial derivatives, multiple integration, Green's Theorem, Stokes' Theorem, Divergence Theorem; includes motion in two and three dimensions, curves and surfaces.

Note: Extensive computer visualization is an integral component of this course.

MATH-52 Math Lab for Transfer Level Mathematics

(0.5-1 Unit LAB) P/NP only

Transfers to: CSU

A course which offers review of mathematical topics for students enrolled in any transfer-level mathematics course. This lab will provide individualized instruction in a self-paced lab environment. This course is designed to support MATH 15/25/30/50A/50B.

Note: Students should be enrolled in at least one transfer-level mathematics course (MATH 15/25/30/50A/50B).

MATH-55 Differential Equations

(4 Units LEC) Grade only

Prerequisite: MATH-50B or concurrent enrollment

Transfers to: UC and CSU

C-ID: MATH 240

A study of ordinary differential equations and solutions, equations of first and second order, linear differential equations, systems of equations, phase plane analysis, existence and uniqueness theorems, applications and modeling, and techniques for obtaining solutions, including series solutions and Laplace transforms.

Note: Computer exploration is an integral component of this course. Students will also create and present oral and written analyses of a topic that requires use of the concepts and techniques learned in this course.

MATH-101 Elementary & Intermediate Algebra Review

(0.5 Units LEC) P/NP only

A review course for students who have successfully completed course work in elementary or intermediate algebra. This review course will include topics from elementary and intermediate algebra and can be used as a refresher prior to enrolling in the next math course. This course can help students raise their level of math readiness. The level and depth of review will be adjusted to suit the individual student's needs.

Note: This is a review course. Extensive work on a computer homework system will be required.

MATH-102 Pathway to Statistics

(6 Units LEC/LAB) P/NP option

A course designed to be a nontraditional, accelerated pathway to transfer-level statistics. Topics in algebra, data analysis and critical thinking skills relevant for success in statistics are the focus. The learning experience for this course emphasizes active learning via collaborative work. This course is designed for students who plan to major in fields such as biology, social sciences, nursing, art, and English, and not for students pursuing degrees in math, engineering, computer science, business or economics.

Note: Graphing calculator required; TI-83 or TI-84 recommended.

MATH-120 Intermediate Algebra

(4 Units LEC) Grade only

Prerequisite: MATH-380

A course in which functions are investigated graphically, numerically, symbolically and verbally in real-world settings. Linear, quadratic, polynomial, rational, radical, exponential, and logarithmic equations and functions are explored. Technology is integrated into all aspects of the course.

Note: Graphing calculator required, TI-83 or TI-84 recommended.

MATH-120L Math Lab for Intermediate Algebra

(0.5-1 Unit LAB) P/NP only

Prerequisite: MATH-120

A course which offers instructional support for students taking Intermediate Algebra (MATH-120), given in a self-paced lab environment. Students receive one-on-one and small-group instruction designed to enhance success in MATH-120.

Note: Students should be enrolled in MATH-120.

MATH-150 Precalculus Review

(0.5 Units LEC) Grade only

A review course for students who have successfully completed course work in precalculus (college algebra and trigonometry). This review course will include topics from college algebra and trigonometry, and is designed for students who are preparing to enroll in the first semester of calculus. The topics, level, and

depth of review will be adjusted to suit the needs of the students in the course.

Note: This is a review course. Some work on a computer-based homework system may be required.

MATH-194 Intermediate Algebra for Social Sciences and Business

(4 Units LEC) Grade only
 Prerequisite: MATH-380

A course in which functions are investigated graphically, numerically, symbolically, and verbally in real-world settings with an emphasis on applications to social sciences and business. Linear, quadratic, polynomial, rational, radical, exponential, and logarithmic equations and functions are explored as models of real-life applications. Data analysis and technology are integrated into all aspects of the course. This intermediate algebra course is appropriate for career and technical students.

Note: Graphing calculator required, TI-83 or TI-84 recommended. Students planning on taking College Algebra or Trigonometry would be advised to take Math 303 concurrent with either of these courses.

MATH-194L Math Lab for Intermediate Algebra for Social Sciences and Business

(0.5-1 Unit LAB) P/NP only

A course which offers instructional support for students taking Intermediate Algebra for Social Science and Business (MATH-194), given in a self-paced lab environment. Students receive one-on-one and small-group instruction designed to enhance success in MATH-194.

Note: Students should be enrolled in MATH-194.

MATH-252 Open Mathematics Lab

(0 Units LAB) P/NP only
 Repeatability: No limit to enrollments

A noncredit course offering instructional support to students needing help in mathematics in a self-paced lab environment. This course supports basic skills mathematics and mathematics-related classes. Students receive one-on-one and small group instruction to enhance success in mathematics across the curriculum.

MATH-272 Arithmetic for College Preparation

(0 Units LEC) P/NP option
 Repeatability: No limit to enrollments

A noncredit, basic skills course, as entry-level preparation for college mathematics. Topics include addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals, with an emphasis on critical-thinking and problem-solving. Includes applications of proportions and percents, measurement unit conversion, and averages. Communication of mathematical ideas is integral to the course. The use of scientific calculators will also be introduced.

MATH-276 Pre-Algebra for College Preparation

(0 Units LEC) P/NP option
 Repeatability: No limit to enrollments
 Recommended Prep: MATH-272

A non-credit course, including a comprehensive review of arithmetic involving whole numbers, fractions, decimals, and signed numbers. Students will solve problems involving ratios, proportions, percents and geometry. Basic algebra concepts and techniques such as variables, simplifying expressions, solving equations will also be introduced. Problem solving, estimation and the communication of mathematical ideas are an integral part of the course. Use of a scientific calculator will be introduced.

Note: A scientific calculator is required.

MATH-301 Prealgebra Review

(1 Unit LEC) P/NP only
 Recommended Prep: MATH-276 or MATH-376 or High School Algebra I

A review course covering material from Math 276/376 (Prealgebra). This review course is designed for students preparing to place into Math 380 (Elementary Algebra). Content includes: review of arithmetic operations involving fractions, decimals, and signed numbers; review of problem-solving strategies for problems involving ratios, percents, and geometry; review of basic algebra concepts; review of techniques for simplifying algebraic expressions and solving linear equations.

Note: This is a review course. Extensive work on a computer homework system will be required.

MATH-302 Elementary Algebra Review

(1 Unit LEC) P/NP only
 Recommended Prep: Math 380, or High School Algebra I and Geometry

A review course covering material from Math 380 (Elementary Algebra). This review course is designed for students preparing to place into Math 120 or Math 194 (Intermediate Algebra). Content includes: review of linear equations and linear inequalities in one variable; review of linear equations in two variables; review of systems of linear equations; review of integer exponents and polynomials; review of factoring; review of radical expressions and equations.

Note: This is a review course. Extensive work on a computer homework system will be required.

MATH-303 Intermediate Algebra Review

(1 Unit LEC) P/NP only
 Recommended Prep: Math 120, or High School Algebra II and Geometry

A review course covering material from Math 120 (Intermediate Algebra). This review course is designed for students preparing to place into a transfer-level mathematics course. Content includes: review of linear equations and inequalities in one variable; review of logic; review of linear functions; review of quadratic and polynomial functions; review of rational functions; review of exponential and logarithmic functions; review of radical functions.

Note: This is a review course. Extensive work on a computer homework system will be required.

MATH-372 Arithmetic for the College Student

(4 Units LEC) Grade only

A study of addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals, with an emphasis on applications. Includes applications of proportion and percents, unit conversion, and averages. Problem solving, estimation, small group work, exploratory activities, and the communication of mathematical ideas are an integral part of the course. The use of scientific calculators will also be introduced.

MATH-372L Math Lab for College Arithmetic

(0.5-1 Unit LAB) P/NP only

Instructional support for students in College Arithmetic (MATH-372), given in a self-paced lab environment. Students receive one-on-one and small-group instruction designed to enhance success in MATH-372.

Note: Students should be enrolled in Math 372.

MATH-376 Pre-Algebra

(4 Units LEC) P/NP option
 Prerequisite: MATH-372

A comprehensive review of arithmetic, involving whole numbers, fractions, decimals, and signed numbers. Students will solve problems involving

ratios, proportions, percents, and geometry. Basic algebra concepts and techniques, such as variables, simplifying expressions, solving equations, and graphing linear equations will also be introduced. Problem solving, estimation, and the communication of mathematical ideas are an integral part of the course. Use of a scientific calculator will be introduced.

Note: Calculator required.

MATH-376L Math Lab for Pre-Algebra

(0.5-1 Unit LAB) P/NP only

Instructional support for students in Pre-algebra (MATH-376), given in a self-paced lab environment. Students receive one-on-one and small-group instruction designed to enhance success in MATH-376.

Note: Students should be enrolled in MATH-376.

MATH-380 Elementary Algebra

(5 Units LEC) P/NP option
 Prerequisite: MATH-376

A study of the real number system, first-degree linear equations and inequalities, polynomial expressions and equations, factoring, radicals, quadratic equations and the quadratic formula, interpretation of graphs, and problem-solving techniques. Small group work and exploratory activities (including the use of the graphing calculator) are involved in this course.

Note: Graphing calculator required, TI-83 or TI-84 recommended.

MATH-380L Math Lab for Elementary Algebra

(0.5-1 Unit LAB) P/NP only

Instructional support for students in Elementary Algebra (MATH-380), given in a self-paced lab environment. Students receive one-on-one and small-group instruction designed to enhance success in MATH-380.

Note: Students should be enrolled in MATH-380.

■ Music [MUS]

MUS-1 Introduction to Music

(3 Units LEC) Grade only
 Recommended Prep: MATH-372
 Transfers to: UC and CSU

An introduction to the fundamentals of music theory, notation and performance. The course addresses rhythm notation; note reading on the treble, bass, alto and tenor staves; the keyboard; scales; the circle of fifths; and key signatures. The course also includes clapping exercises, recorder playing, and review writing.

MUS-2A Beginning Harmony and Musicianship I

(4 Units LEC) Grade only
 Recommended Prep: MUS-1
 Transfers to: UC and CSU
 C-ID: MUS 120 or MUS 125

An introduction to diatonic harmony and musical form. Topics addressed include intervals and their inversions, triads and their inversions, part-writing procedures, figured bass symbols, roman numeral analysis, and part writing involving the primary triads. The course also includes sight-singing and ear training.

MUS-2B Beginning Harmony and Musicianship II

(4 Units LEC) Grade only
 Recommended Prep: MUS-2A
 Transfers to: UC and CSU
 C-ID: MUS 130 or MUS 135

A study of diatonic harmony and musical form. Topics addressed include secondary triads, non-harmonic tones, seventh chords, common chord modulation, and the composition and harmonization of short diatonic melodies. The course also in-

cludes part-writing exercises, roman numeral analysis of short compositions, sight-singing, and ear training.

MUS-3A Intermediate Harmony and Musicianship I

(4 Units LEC) Grade only
Recommended Prep: MUS-2B
Transfers to: UC and CSU
C-ID: MUS 140 or MUS 145

An introduction to the chromatic vocabulary and to extended forms. Topics addressed include secondary dominant and diminished seventh chords, augmented sixth, neapolitan, and borrowed chords, pedal points, and abrupt modulation. The course also includes the composition and harmonization of melodies, part-writing exercises, analysis of compositions, sight-singing, and ear training.

MUS-3B Intermediate Harmony and Musicianship II

(4 Units LEC) Grade only
Recommended Prep: MUS-3
Transfers to: UC and CSU
C-ID: MUS 150 or MUS 155

An introduction to the post-functional vocabulary of the late nineteenth and twentieth centuries, and a continued study in extended forms. Topics addressed include ninth, eleventh, and thirteenth chords; chord symbols and jazz lead sheet notation; the diatonic modes; pentatonic and symmetrical scales; pitch sets; parallelism, bitonality, and non-tertian sonorities; free atonality; and serialism. The course also includes short composition exercises, analysis of compositions, sight-singing, and ear training.

MUS-10 Music in History

(3 Units LEC) Grade only
Recommended Prep: ENGL-1A
Transfers to: UC and CSU
C-ID: MUS 100

A survey of Western art music from the Middle Ages through the twentieth century. The course addresses basic musical terminology and concepts, traces changes in styles, genres, and forms through successive historical periods, introduces major composers and representative instruments, and explores the changing social contexts of music in Western culture.

MUS-12 American Popular Music

(3 Units LEC) Grade only
Recommended Prep: ENGL-1A
Transfers to: UC and CSU

A survey of the major American popular music traditions ca. 1840-2000, including popular song and musical theater; the blues-ragtime-jazz axis; country-and-western; rock music; and the soul-funk-disco-hip-hop axis. Addresses the evolution of the music industry and music-related media and technology, and the role of race, class, region, and gender in music's production, dissemination, and consumption.

MUS-22B Beginning Band Instruments: Brass

(1 Unit LAB) Grade only
Transfers to: UC and CSU

Class instruction in the fundamentals of performance on brass instruments commonly used in a concert band setting.

Note: Student must own or rent an instrument.

MUS-22P Beginning Band Instruments: Percussion

(1 Unit LAB) Grade only
Transfers to: UC and CSU

Class instruction in the fundamentals of performance on percussion instruments commonly used in a concert band setting.

MUS-22W Beginning Band Instruments: Woodwinds

(1 Unit LAB) Grade only
Transfers to: UC and CSU

Class instruction in the fundamentals of performance on woodwind instruments commonly used in a concert band setting.

Note: Student must own or rent an instrument.

MUS-24A Beginning Class Piano I

(1 Unit LEC/LAB) Grade only
Transfers to: UC and CSU

A course of instruction in piano in both group and individual formats. The course introduces students to the keyboard, rhythm notation and counting, note reading in the treble and bass staves, fingering techniques, simple chord patterns, basic elements of interpretation (tempo, dynamics, phrasing), and development of two-hand independence.

Note: Course includes recitals.

MUS-24B Beginning Class Piano II

(1 Unit LAB) Grade only
Recommended Prep: MUS-24A
Transfers to: UC and CSU

A course in the continued development of piano skills in both group and individual formats. Use of the damper pedal, simple two-part polyphony, extended hand positions, and beat divisions in simple time are introduced. Course fosters further development of finger technique, hand-to-hand independence, and subtlety of articulation.

Note: Course includes recitals.

MUS-25A Intermediate Class Piano I

(1 Unit LAB) Grade only
Recommended Prep: MUS-24B
Transfers to: UC and CSU

Continued development of piano skills. Major scales, secondary triads, shifting and extended hand positions, additional articulation symbols, rolled chords, and swing eighths are introduced. Further development of finger technique, hand-to-hand independence, and subtlety of articulation through a repertoire encompassing all periods.

Note: Course includes recitals.

MUS-25B Intermediate Class Piano II

(1 Unit LAB) Grade only
Recommended Prep: MUS-25A
Transfers to: UC and CSU

Continued development of piano skills. Minor scales, shifting and extended hand positions in a variety of keys, and performance practices appropriate to specific periods and styles are introduced. Further development of finger technique, hand-to-hand independence, and subtlety of articulation through a repertoire encompassing all periods.

Note: Course includes recitals.

MUS-26A Beginning Class Voice I

(1 Unit LEC/LAB) Grade only
Transfers to: UC and CSU

Group instruction at the beginning level in the development of solo vocal techniques. Breathing techniques, tone quality, and stage presence are covered in a variety of musical styles.

MUS-26B Beginning Class Voice II

(1 Unit LAB) Grade only
Recommended Prep: MUS-26A
Transfers to: UC and CSU

A continued development of vocal skills in a group format. Emphasis is placed on further development of solo voice techniques, practice skills, and performance approaches in various musical styles.

Note: Students enrolling should be able to read music and be aware of basic techniques of breathing, tone quality, and stage presence.

MUS-27A Intermediate Class Voice I

(1 Unit LAB) Grade only
Recommended Prep: MUS-26B
Transfers to: UC and CSU

A continued development of vocal skills in a group format. Emphasis is placed on further development of solo voice techniques, practice skills, and performance approaches in various musical styles. The international phonetic alphabet is introduced.

Note: Students enrolling should be able to read music and be aware of the techniques of breathing, tone quality, and stage presence taught in Music 26B.

MUS-27B Intermediate Class Voice II

(1 Unit LAB) Grade only
Recommended Prep: MUS-27A
Transfers to: UC and CSU

Continued development of vocal skills in a group format. Emphasis is placed on further development of solo voice techniques, practice skills, and performance approaches in various musical styles. Further work with the international phonetic alphabet.

Note: Students enrolling should be able to read music and be aware of techniques of breathing, tone quality, and stage presence as taught in Music 27A.

MUS-29A Beginning Class Guitar I

(1 Unit LEC/LAB) Grade only
Transfers to: CSU

A course of group instruction in guitar at the beginning level. Course includes familiarization with the fretboard, fundamental rhythmic notation and chord symbols, common chord progressions, major scales, and the development of finger independence.

MUS-29B Beginning Class Guitar II

(1 Unit LAB) Grade only
Recommended Prep: MUS-29A
Transfers to: CSU

Continued development of guitar skills in both group and individual formats. Students continue to develop finger independence, chord symbol recognition, and chord construction abilities, and are introduced to minor scales, common modes, and arpeggios, as well as improvisation over common chord changes.

MUS-29C Intermediate Class Guitar

(1 Unit LAB) Grade only
Recommended Prep: MUS-29B
Transfers to: CSU

Continued development of guitar skills in both group and individual formats. Students improvise over progressively more challenging chord change patterns, are introduced to reading notes from the treble staff, and develop facility in applying performance practices appropriate to specific musical styles.

MUS-40 Independent Study in Music

(0.5-2 Units IND) P/NP option
Transfers to: CSU

A course involving the individual student in research or activity in the field of Music. Special projects will be determined upon consultation with the instructor. Laboratory hours will be arranged. A written report or evaluation of the work completed will be required by the end of the semester.

MUS-50 Applied Music

(0.5 Unit LAB) Grade only
Repeatability: Maximum of four enrollments
Corequisites: One ensemble course (MUS-59 or MUS-61 or MUS-62 or MUS-63 or MUS-64 or MUS-70) and one music theory course (MUS-2A or MUS-2B or MUS-3A or MUS-3B)
Transfers to: CSU

Individualized study of the appropriate techniques and repertoire for the specific instrument or voice

being studied, in conjunction with group study of practice and performance strategies.

MUS-59 Choral

(1 Unit LAB) Grade only
 Repeatability: Maximum of four enrollments
 Recommended Prep: MUS-26A
 Transfers to: UC and CSU
 C-ID: MUS 180

The study and performance of choral selections from the eighteenth, nineteenth, and twentieth centuries. Course addresses vocal techniques, performance practice issues, and historical background.

MUS-61 Concert Band

(1 Unit LAB) Grade only
 Repeatability: Maximum of four enrollments
 Recommended Prep: MUS-22B or MUS-22P or MUS-22W
 Transfers to: UC and CSU
 C-ID: MUS 180

The study and performance of nineteenth and twentieth-century concert band literature. Course addresses rehearsal techniques, development of sight-reading and public performance skills, and historical background of the concert band repertoire.

MUS-62 Jazz Orchestra

(1 Unit LAB) Grade only
 Repeatability: Maximum of four enrollments
 Recommended Prep: MUS-22B or MUS-22P or MUS-22W
 Transfers to: UC and CSU
 C-ID: MUS 180

An advanced-level performing ensemble which focuses on the repertoire of the Big Band era. Course addresses development of sight reading, public performance, and improvisation skills.

MUS-63 Wind Ensemble

(1 Unit LAB) Grade only
 Repeatability: Maximum of four enrollments
 Recommended Prep: MUS-22B or MUS-22P or MUS-22W
 Transfers to: UC and CSU
 C-ID: MUS 180

The study and performance of traditional and contemporary wind band literature. Course addresses rehearsal techniques, development of sight reading and public performance skills, and historical background.

MUS-64 Studio Band

(1 Unit LAB) Grade only
 Repeatability: Maximum of four enrollments
 Recommended Prep: MUS-22B or MUS-22P or MUS-22W
 Transfers to: UC and CSU
 C-ID: MUS 180

An advanced-level performing ensemble that focuses on modern progressive jazz and jazz-rock fusion. Course addresses development of sight reading, public performance, and improvisation skills.

MUS-70 Oratorio Choir

(1 Unit LAB) Grade only
 Repeatability: Maximum of four enrollments
 Recommended Prep: MUS-26A
 Transfers to: UC and CSU
 C-ID: MUS 180

The study and performance of oratorio literature and other literature for large chorus. Course addresses vocal techniques, development of sight reading skills, and historical background.

■ Native American Studies [NAS]

NAS-1 Introduction to Native American Studies

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU

An introduction to the interdisciplinary field of Native American Studies, exploring the complexity and diversity of Native American experience. It is centered on the Native American perspective, gaining further insight from traditional academic fields such as history, anthropology, and literature. It also explores contemporary cultures and the vital contributions of First Peoples to a multicultural society.

NAS-21 Native American History

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150 or ENGL-102 or ENGL-153
 Transfers to: UC and CSU

A survey from pre-Columbian origins to the present. This course examines the trajectories of indigenous societies, their interactions with European invaders, and their vital role in the development of a multiethnic nation-state in North America. It examines the evidence and historical context of contemporary Native American political, cultural, legal, and economic conditions, and the role of Native Americans in contemporary society.

■ Nursing [NURS]

NURS-10A Pharmacology in Professional Nursing - I

(2 Units LEC) Grade only
 Prerequisite: NURS-21
 Transfers to: CSU

Introduction to pharmacology in the practice of nursing that incorporates the legal, cultural, psychological, professional, and ethical aspects of medication administration across the lifespan. Clinical judgment and reasoning skills as well as client education programs will be delineated and integrated throughout the course.

Note: Admission to the ADN Program required for enrollment. Appropriate for licensed professionals for update or review with permission of the instructor.

NURS-10B Pharmacology for Professional Nursing II

(2 Units LEC) Grade only
 Prerequisite: NURS-10A and NURS-21
 Corequisite: NURS-22
 Transfers to: CSU

Further study of drug classifications not covered in NURS-10A. Reinforcement of clinical reasoning and judgment skills as they relate to drug therapy. Safety associated with medication administration and development of more complex patient education plans emphasized.

Note: Admission to the ADN Program required for enrollment. Appropriate for licensed professionals for update or review with permission of the instructor.

NURS-21 Nursing Science and Practice I

(9 Units LEC/LAB) Grade only
 Prerequisite: Admission to the RN Program
 Transfers to: CSU

A course in the introduction to major concepts of client, environment, health, and the art/science of nursing basic to developing a caring collaborative relationship in nursing practice. There is an emphasis on nursing process, communication, teaching-learning, safety, infection control, medication administration, and individualized, holistic nursing care of clients with commonly occurring medical/surgical conditions having predictable outcomes. Concurrent clinical experiences occur in health care facilities.

Note: Prior admission to the RN Program is required.

NURS-22 Nursing Science and Practice II

(9 Units LEC/LAB) Grade only
 Prerequisite: NURS-10A and NURS-21 and Admission to RN Program
 Corequisite: NURS-10B
 Transfers to: CSU

A course in the application of the nursing process in collaborative, holistic care of individual and family clients across the life-span, who are experiencing commonly occurring physiological and pathophysiological conditions with predictable and unpredictable outcomes. Concurrent clinical experiences occur within medical, surgical, pediatric, maternal-child, and community settings. Application of nursing roles and responsibilities in intermediate physical interventions to assess and support individual clients/family-clients to meet their immediate and continuing needs.

NURS-23 Nursing Science and Practice III

(9 Units LEC/LAB) Grade only
 Prerequisite: (NURS-22 and NURS-10B and admission to the RN Program) or (NURS-60A and NURS-60B and NURS-60L and admission to the LVN/Paramedic to RN Career Mobility Program)
 Transfers to: CSU

A course focusing on the nursing process in the collaborative, holistic care of groups of individual and family clients with complex pathophysiological and psychological conditions. Concurrent clinical experiences occur in acute healthcare facilities, psychiatric settings and community health placements. This course emphasizes the roles and responsibilities of the nurse meeting immediate and long term client care needs.

NURS-24 Nursing Science and Practice IV

(10 Units LEC/LAB) Grade only
 Prerequisite: NURS-23 and Admission to the RN Program
 Transfers to: CSU

A course which synthesizes the major concepts of the client, environment, health, holism and the art and science of nursing. This course focuses on critical thinking and professional behaviors essential to enhancing a caring-collaborative relationship in nursing practice. The concepts of nursing management and leadership of other health care workers are incorporated within the provision and management of care of clients with complicated and critical pathophysiological conditions.

NURS-60A LVN/Paramedic-to-RN Transition Concepts Part I

(1 Unit LEC) Grade only
 Transfers to: CSU

This course explores practice concepts related to role transition for the Licensed Vocational Nurse or Paramedic seeking Registered Nurse licensure. Topics include but are not limited to role theory, distinction between LVN/Paramedic/RN roles, nursing process, clinical reasoning, therapeutic communication, client teaching, and nursing skills related to nursing fundamentals and pharmacology. Students will be introduced to the RN Associate Degree curriculum model, and the roles and responsibilities of the Registered Nurse.

Note: Students must have waitlist number for the LVN/Paramedic-RN Career Mobility Program and current licensure as an LVN or Paramedic in order to enroll. Didactic and clinical competency will be assessed through standardized exams and skills testing.

**NURS-60B LVN/Paramedic-to-RN Transition
Concepts Part II**

(1 Unit LEC) Grade only
Prerequisite: NURS-60A
Transfers to: CSU

This course explores nursing practice concepts related to role transition for the Licensed Vocational Nurse or Paramedic seeking Registered Nurse licensure. Topics include but are not limited to nursing care plan development, RN licensure process and requirements, leadership, legal ethical issues, family centered and holistic nursing and nursing skills related to Maternal-Child Health and Pediatrics.

**NURS-60L LVN/Paramedic-to-RN Transition
Clinical**

(1 Unit LAB)
Prerequisite: NURS-60B
Transfers to: CSU

A course practicing nursing skills related to role transition for the licensed Paramedic or LVN seeking Registered Nurse Licensure. This course provides opportunity to demonstrate professional nursing skills typical of the RN scope of practice including but not limited to: assessment, communication, electronic medical records, patient education, safety, patient mobility, hospital-based bedside care and medication administration, care of OB, uncomplicated geriatric, adult medical-surgical and pediatric patients.

Note: This is a clinical lab course requiring College of the Redwoods nursing uniform attire and will be held in local acute care hospitals or community settings and the Simulation Lab.

■ Oceanography [OCEAN]
OCEAN-10 Introduction to Oceanography

(3 Units LEC) P/NP option
Recommended Prep: ENGL-150
Transfers to: UC and CSU

An introduction to the Earth's ocean including marine environments, geology, plate tectonics, fundamental chemical and physical properties of seawater, atmospheric-oceanic relationships, oceanic circulation, coastal environments and biological productivity.

OCEAN-11 Laboratory in Oceanography

(1 Unit LAB) P/NP option
Prerequisite: OCEAN-10 or concurrent enrollment
Recommended Prep: ENGL-150
Transfers to: UC and CSU

An exploration of the conceptual material presented in OCEAN-10. Students will acquire practical laboratory and field experience using oceanographic skills, tests, and procedures. Laboratory exercises focus on chart reading, measurements of seafloor movement, seawater chemistry, wave celerity, and microscopic analysis. Field experience includes examination of coastal geology, wave and beach processes, habitats and marine organisms.

Note: This course includes field trips to various marine and coastal areas. The College does not provide transportation.

OCEAN-12 Environmental Oceanography

(3 Units LEC) P/NP option
Recommended Prep: ENGL-150
Transfers to: UC and CSU

A study of the fundamental principles of oceanography and the resources available from the sea. The basic concepts of physical, chemical, geologic, and biological oceanography will be explored in discussions on marine mineral resources, ocean energy, living resources of the sea, marine pollution, and ocean management.

■ Philosophy [PHIL]
PHIL-1 Critical Thinking

(3 Units LEC) Grade only
Prerequisite: ENGL-150 or ENGL-102
Transfers to: UC and CSU

A study of thinking and its qualities with a focus on effective decision making and practical reasoning skills. Students will practice evaluating arguments and gathering and analyzing information and reasoning to justify a conclusion. The course examines the uses of language, formal and informal fallacies, argument forms, deductive and inductive logic, and methods for evaluating arguments.

PHIL-2 Introduction to Political Philosophy

(3 Units LEC) Grade only
Prerequisite: ENGL-150

Transfers to: UC and CSU A course examining the key texts and political thinkers of western political thought from Plato to the present. Students will be introduced to: (1) historical and contemporary debates about the most desirable cultural values, political regimes, institutional forms, economic systems, and laws to achieve "the good life;" and (2) political theorists' answers to contentious questions about the nature of justice, freedom, and equality.

PHIL-10 Introduction to Philosophy

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: PHIL 100

An introduction to the central and enduring philosophical problems and the arguments historical and contemporary philosophers have made about them. Topics to be addressed include epistemology; metaphysics; the relation between the mind and the body; the nature of free will; the existence of God; the foundations of morality; aesthetics; and social justice. Emphasis is on using methods of philosophic inquiry to develop and defend individual responses to perennial questions.

PHIL-12 Introduction to Logic

(3 Units LEC) Grade only
Prerequisite: ENGL-150 or ENGL-102
Transfers to: UC and CSU
C-ID: PHIL 110

An introduction to the nature of argument with emphasis on informal and formal logic. Students will practice inductive and deductive reasoning and learn to use Venn diagrams, squares of opposition, and truth tables to assess ordinary language and symbolic arguments. Topics such as justification, validity, language and thought, and formal and informal fallacies will be discussed.

PHIL-13 History of Ancient Philosophy

(3 Units LEC) Grade only
Recommended Prep: ENGL-150 or ENGL-102
Transfers to: UC and CSU
C-ID: PHIL 130

An introduction to the development of Western philosophy focusing on its beginnings in ancient Greece and its development into the philosophy of the Medieval era (500BCE-1500CE). Emphasis is on the explication of primary philosophical texts by the Pre-Socratics, Plato, and Aristotle.

PHIL-14 History of Early Modern Philosophy

(3 Units LEC) Grade only
Recommended Prep: ENGL-150 or ENGL-102
Transfers to: UC and CSU
C-ID: PHIL 140

An introduction to the major philosophers of the Western tradition from the Renaissance through the Enlightenment (@1500-1800). Students will examine

the problem of knowledge, reality, truth, freedom, agency, morality, and value theory. Emphasis is on the explication of primary texts by Descartes, Spinoza, Leibniz, Hobbes, Locke, Berkeley, Hume, and Kant.

PHIL-15 Religions of the World

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU

An introductory examination of religious thought, experience, and expression associated with living religions of the world. Religions that may be studied include Hinduism, Jainism, Buddhism, Confucianism, Taoism, Sikhism, Zoroastrianism, Judaism, Christianity, Islam, and Primal.

PHIL-16 Introduction to the Philosophy of Religion

(3 Units LEC) Grade only
Recommended Prep: ENGL-150 or ENGL-102
Transfers to: UC and CSU

An introduction to the major philosophical issues related to religion and to the arguments offered in response to these issues by historical and contemporary philosophers. Using philosophical methods of inquiry, students will study issues such as the arguments for and against theism, the relationship between God and language, the problem of evil, the cognitive components of religious experience, the relationship between God and morality, and the distinctions between faith and reason. Emphasis is on the explication of traditional and contemporary primary philosophical works, including historical philosophers such as Boethius, Anselm, Aquinas, Leibniz, Hume, Calvin, Luther, Erasmus, Kierkegaard, and Kant and contemporary philosophers such as William Lane Craig, Richard Swineburne, Alvin Plantinga, Sam Harris, and Christopher Hitchens.

PHIL-20 Introduction to Ethics

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: PHIL 120

An introduction to major ethical theories and the practice of moral reasoning and decision making. Students will practice using ethical theories and methods of moral reasoning to reach justified ethical conclusions in response to a variety of current ethical issues related to stem cell research, war, computer technology, religious practice, the treatment of animals and the environment, etc.

■ Physical Education [PE]
PE-8A Beginning Golf

(0.5-1 Unit LAB) P/NP option
Transfers to: UC and CSU

This course is designed to introduce students to the basic golf fundamentals of the grip, stance and swing. The basics in scoring and etiquette will be emphasized for a standard round of golf.

Note: Students will be expected to provide their own transportation to the local golf course for a minimum of four class sessions. In addition, students with their own set of golf clubs will be expected to use them.

PE-9 Hiking

(0.5-1 Unit LAB) P/NP option
Repeatability: Maximum of four enrollments
Transfers to: UC and CSU

A fun and challenging experience that explores our beautiful local Humboldt County trails and surrounding areas. This course will introduce safe hiking on terrain that will progress from easy and moderate to strenuous throughout the semester. Hikes will typically range from 3-8 miles on each outing and require a

20-minute per mile pace. Leadership and nature activities exploring safety, leave no trace, history, flora and fauna and emergency procedures will be introduced.

Note: Field trip oriented class, hiking off campus.

PE-10 Running and Walking

(0.5-1 Unit LAB) P/NP option
Transfers to: UC and CSU

A course designed to improve cardio-vascular endurance, strengthen specific muscle groups and improve flexibility through aerobics and exercise.

PE-11 Tennis

(0.5-1 Unit LAB) P/NP option
Transfers to: UC and CSU

A course designed to teach basic tennis skill fundamentals, rules of the game, scoring, and tennis etiquette.

Note: Student needs to provide their own racquet and three new tennis balls.

PE-12 Weight Training

(1 Unit LAB) P/NP option
Transfers to: CSU

The application of resistance in the form of weight machines, free-weights, and body resistance exercises to condition the muscular system of the body. Training programs will be adapted to individuals weight training level.

PE-13 Boot Camp Fitness

(0.5-1 Unit LAB) P/NP option
Transfers to: UC and CSU

A course in fitness involving very high intensity, high energy cardiovascular workouts with minimal rest periods. Students will be required to perform plyometric jumping drills, sprints, core body movements, lunges, and many other movements. Exercise nutrition will be discussed and students will be required to create a personalized workout and nutrition plan.

PE-14 Defensive Tactics

(0.5-1 Unit LAB) P/NP option
Repeatability: Maximum of four enrollments
Transfers to: CSU

A course in self-protection against unarmed persons and persons armed with dangerous and deadly weapons. Demonstrations and drills in holds and come-alongs will be given.

Note: Students may want to provide their own staff (a wooden stick to approximately chin height) but it is not required.

PE-15 Women's Self Defense

(1 Unit LEC/LAB) P/NP option
Transfers to: UC and CSU

Introduction to self-defense. Violence prevention education, assertiveness skills, and physical self defense techniques are taught and practiced.

Note: This course is open to women and men of all fitness levels.

PE-17 Aerobic Kickboxing

(0.5-1 Unit LAB) P/NP option
Transfers to: CSU

A study of the techniques of kickboxing and martial sports as the basis for aerobic exercise and strength training. Basic kicking, punching, and blocking techniques will be taught as well as footwork and combinations. The focus is on aerobic fitness, safe execution of kicks and punches, balance, flexibility, coordination, and timing.

PE-20 Baseball Conditioning

(2 Units LAB) P/NP option
Repeatability: Maximum of two enrollments
Transfers to: UC and CSU

A course designed to prepare to students for intercollegiate baseball competition. Students will learn how a variety of athletic conditioning activities promote the individual skills necessary to compete successfully in baseball.

PE-21 Basketball

(0.5-1 Unit LAB) P/NP option
Repeatability: Maximum of four enrollments
Transfers to: CSU

A course designed to teach the basic skill fundamentals of the game of basketball with emphasis on movement, rules of the game, strategies, and team play.

PE-22 Soccer

(0.5-1 Unit LAB) P/NP option
Transfers to: UC and CSU

A course designed to teach the basic skills, techniques, rules, and strategies to play organized soccer.

PE-23 Fastpitch Softball

(2 Units LAB) P/NP option
Repeatability: Maximum of two enrollments
Transfers to: UC and CSU

A course designed to prepare students for intercollegiate fastpitch softball competition. Students will learn individual skills and strategy tactics with an emphasis on athletic conditioning.

PE-24 Touch Football

(1 Unit LAB) P/NP option
Transfers to: UC and CSU

A course to teach the fundamental skills and principles of touch football including running, passing, receiving, blocking, and defending, as well as, discussing offensive and defensive strategies in attacking principles of football theory.

PE-25 Volleyball

(0.5-1 Unit LAB) P/NP option
Transfers to: UC and CSU

A volleyball course that emphasizes movement, rules of the game, basic skill fundamentals, and team play.

PE-27 Power Weight Lifting

(0.5-1 Unit LAB) P/NP option
Recommended Prep: PE-12
Transfers to: UC and CSU

A course designed to introduce the application of resistance in the form of free-weights, Olympic Power Weight Lifting, and body resistance exercises in order to condition the muscular system. Training programs will be adapted to individual's weight training level.

PE-32 Circuit Training

(0.5-1 Unit LAB) P/NP option
Recommended Prep: PE-12A
Transfers to: UC and CSU

A course designed to train students in cross-fit & timed interval exercise sessions. Sessions will train all major muscle groups and include the use of free weights, machines and aerobic conditioning activities at a variety of workloads and pace. Core abdominal work and flexibility will also be emphasized.

PE-36 Hip Hop Dance

(0.5-1 Unit LAB) P/NP option
Transfers to: UC and CSU

Introduction to the fundamentals of hip hop dance styles. The students will learn the history of hip hop dance and culture as well as study and perform current moves and trends in hip hop dance styles.

Students will be required to perform in a live production at the end of the semester.

Note: Attend and critique a live community performance. Students are responsible for their own transportation.

PE-48 Intercollegiate Sand Volleyball

(2 Units LAB) Grade only
Repeatability: Maximum of four enrollments
Transfers to: UC and CSU

A course designed for those participating in competitive sand volleyball at the intercollegiate level. This course provides opportunities for students to receive advanced-level instruction and training in sand volleyball skills, techniques, and strategies.

PE-49 Intercollegiate Soccer - Men

(2 Units LAB) Grade only
Repeatability: Maximum of four enrollments
Transfers to: UC and CSU

Advanced level instruction for men interested in participating in competitive intercollegiate soccer.

Note: Must meet all eligibility requirements of the State Athletic Code for participation. Consult class schedule for section information.

PE-50 Intercollegiate Baseball

(2 Units LAB) P/NP option
Repeatability: Maximum of two enrollments
Recommended Prep: PE-20
Transfers to: UC and CSU

A course for experienced student baseball players that provides an opportunity to play competitive baseball at the intercollegiate level. This course provides advanced instruction and training in baseball skills, strategy, sportsmanship and teamwork. All students participating must meet State eligibility requirements provided by the CCCAA.

PE-51 Intercollegiate Basketball - Women

(1 Unit LAB) Grade only
Repeatability: Maximum of four enrollments
Transfers to: UC and CSU

A course for those participating in competitive basketball at the intercollegiate level. Students will learn advanced level basketball skills and techniques, game strategies, and leadership skills, and then apply them in intercollegiate competitions.

Note: All students participating must meet state eligibility requirements provided by the CCCAA.

PE-52 Intercollegiate Basketball - Men

(1 Unit LAB) P/NP option
Repeatability: Maximum of four enrollments
Transfers to: UC and CSU

A course for those participating in competitive basketball at the intercollegiate level. Students will learn advanced level basketball skills and techniques, game strategies, and leadership skills, then apply them in intercollegiate competitions.

Note: All students participating must meet state eligibility requirements provided by the CCCAA.

PE-53 Intercollegiate Cross Country

(2 Units LAB) Grade only
Repeatability: Maximum of two enrollments
Transfers to: UC and CSU

Advanced level instruction for men and women interested in participating in competitive intercollegiate cross country.

Note: Must meet all eligibility requirements of State Athletic Code for participation. Consult class schedule for section information.

PE-54 Intercollegiate Football*(2 Units LAB) P/NP option**Repeatability: Maximum of two enrollments**Transfers to: UC and CSU*

Designed for those participating in competitive football at the intercollegiate level. This course provides opportunities for students to receive advanced-level instruction and training in football skills, techniques, strategies, and leadership.

*Note: Must meet all eligibility requirements of CCCAA.***PE-56 Intercollegiate Fastpitch Softball***(2 Units LAB) P/NP option**Repeatability: Maximum of two enrollments**Transfers to: UC and CSU*

A course for experienced fastpitch softball players that provides an opportunity to play competitive fastpitch softball at the intercollegiate level. This course provides advanced instruction and training in softball skills, strategy, sportsmanship and teamwork.

*Note: All student athletes participating must meet State eligibility requirements provided by the CCCAA.***PE-57 Intercollegiate Track and Field***(2 Units LAB) Grade only**Repeatability: Maximum of four enrollments**Transfers to: UC and CSU*

Advanced level instruction for men and women interested in participating in competitive intercollegiate track and field.

*Note: Must meet all eligibility requirement of the State Athletic Code for participation. Consult class schedule for section information.***PE-58 Intercollegiate Volleyball***(2 Units LAB) Grade only**Repeatability: Maximum of two enrollments**Transfers to: UC and CSU*

A course for experienced student volleyball players that provides an opportunity to play competitive intercollegiate volleyball. This course provides advanced instruction and training in volleyball skills, strategy, sportsmanship, and teamwork.

*Note: Must meet all eligibility requirements of State Athletic Code for participation. Units offered may vary by semester. Consult Schedule of Classes for section information.***PE-59 Intercollegiate Soccer-Women***(2 Units LAB) Grade only**Repeatability: Maximum of two enrollments**Transfers to: UC and CSU*

Advanced-level instruction for women interested in participating in competitive intercollegiate soccer.

*Note: Must meet all eligibility requirements of State Athletic Code for participation. Consult class schedule for section information.***PE-67 Theory of Football***(1 Unit LAB) P/NP option**Repeatability: Maximum of two enrollments**Transfers to: UC and CSU*

A course in the theory, practice, and game performance of football. Through lecture, discussion, and DVD analysis, students will focus on advanced-level theories of football skills, techniques, and strategies.

*Note: This is a class related to a varsity intercollegiate sport requiring coach's or academic athletic advisor's approval.***PE-67B Theory of Football 2***(1 Unit LAB) P/NP option**Recommended Prep: PE-67A**Transfers to: CSU*

An advanced course in the continued development of theory, practice, and game performance of football. Through lecture, discussion, and DVD analysis,

students will focus on advanced-level theories of football skills, technique, and strategies.

*Note: This is a class related to a varsity intercollegiate sport requiring coach's or academic athletic advisor's approval.***PE-80 Athletic Conditioning***(0.5-2 Units LAB) P/NP option**Repeatability: Maximum of four enrollments**Transfers to: UC and CSU*

Physical conditioning through exercises, skills, and drills related to specific intercollegiate sport activities.

PE-90 Adaptive Resistive Training*(0.5-1 Unit LAB) P/NP only**Repeatability: Maximum of four enrollments**Transfers to: UC and CSU*

A comprehensive fitness course designed for students with disabilities. This class is in a weight room setting with access to adaptive equipment. Individual and group instruction will be provided. Areas to be covered include, lifetime fitness programs, flexibility-range of motion, cardiovascular conditioning, general strength training. An individual goal for each student will be closely monitored by the instructor with the use of a pre and post semester physical assessment.

PE-98 Adaptive Physical Education*(1 Unit LAB) P/NP only**Repeatability: Maximum of sixteen enrollments**Transfers to: UC and CSU*

A comprehensive fitness course designed for students with disabilities. This is an activity course which allows for late entry and access to adaptive physical education programs numbered 90-99. Contractual goals will be set between instructor and student. The major components for this activity lab may include but not limited to: resistive water exercise, cardiovascular conditioning, aqua jogger/lap swimming instruction, flexibility-range of motion, lifetime fitness programs, and general strength training. Students can select either a pool setting or a resistive setting.

PE-300 Aquatic Calisthenics*(0.5-1 Unit LAB) P/NP only**Repeatability: Maximum of four enrollments*

A course designed to enable the student with disabilities to become independent and aware of his/her individual abilities through appropriate aquatic activities.

PE-302 Adaptive Conditioning*(0.5-1 Unit LAB) P/NP only**Repeatability: Maximum of four enrollments*

A course designed to enable the student with disabilities to become independent and aware of his/her individual abilities through appropriate resistive and weight training activities.

■ Physics [PHYS]**PHYS-2A General Physics I***(4 Units LEC/LAB) Grade only**Prerequisite: MATH-25**Transfers to: UC and CSU**C-ID: PHYS 105*

An introduction to the structure and language of physics through the study of mechanics, thermodynamics, vibrations, and waves.

PHYS-2B General Physics II*(4 Units LEC/LAB) Grade only**Prerequisite: PHYS-2A**Transfers to: UC and CSU**C-ID: PHYS 110*

A continuation of the study of the structure and language of physics. The subject matter includes electricity and magnetism, optics, and modern physics.

PHYS-4A Calculus-Based Physics: Mechanics*(4 Units LEC/LAB) Grade only**Prerequisite: MATH-50A**Transfers to: UC and CSU**C-ID: PHYS 205*

An introductory course in calculus-based physics for physical science and engineering majors. The subject matter of the course is classical mechanics, including analysis of motion, force, momentum, and energy.

PHYS-4B Calculus-Based Physics: Electricity & Magnetism*(4 Units LEC/LAB) Grade only**Prerequisite: MATH-50B and PHYS-4A**Transfers to: UC and CSU**C-ID: PHYS 210*

A continuation of the introductory course in calculus-based physics for physical science and engineering majors. The subject matter of the course is electricity and magnetism, including static electricity, magnetic phenomena, direct and alternating current circuits, and electromagnetic waves.

PHYS-4C Calculus-based Physics: Heat, Optics, Waves and Modern Physics*(4 Units LEC/LAB) Grade only**Prerequisite: MATH-50B and PHYS-4A**Transfers to: UC and CSU**C-ID: PHYS 215*

A continuation of the introductory treatment of physics for physical science and engineering majors. The subject matter includes geometric and physical optics, the mechanics of solids and fluids, wave motion, thermal physics, and an introduction to relativity and quantum physics.

PHYS-10 Conceptual Physics*(3 Units LEC) Grade only**Recommended Prep: MATH-380**Transfers to: UC and CSU*

An introductory level course in physics examining the subject from a broad, interdisciplinary perspective. Topics may include motion, falling objects, energy, electricity and magnetism, momentum, and waves.

■ Political Science [POLSC]**POLSC-1 Political Controversies***(3 Units LEC) Grade only**Recommended Prep: ENGL-150**Transfers to: UC and CSU*

An introduction to current controversies in US politics. Students will become familiar with contemporary issues, critique different viewpoints, and construct policy solutions while learning about constitutional principles and government institutions.

POLSC-2 Introduction to Political Philosophy*(3 Units LEC) Grade only**Prerequisite: ENGL-150 with a minimum grade of "C".**Transfers to: UC and CSU**C-ID: POLS 120*

A course examining the key texts and political thinkers of western political thought from Plato to the present. Students will be introduced to: (1) historical and contemporary debates about the most desirable cultural values, political regimes, institutional forms, economic systems, and laws to achieve "the good life;" and (2) political theorists' answers to contentious questions about the nature of justice, freedom, and equality.

POLSC-3 Modern World Problems

(3 Units LEC) Grade only
Recommended Prep: ENGL-150 or ENGL-153 or ENGL-102

Transfers to: UC and CSU
C-ID: POLS 140

An introductory analysis of international political systems emphasizing the causes and ramifications of contemporary international issues such as war, proliferation of weapons of mass destruction, ethnic and religious conflict, peace keeping, terrorism, political and economic globalization, and environmental conflict.

POLSC-10 US Government and Politics

(3 Units LEC) Grade only
Recommended Prep: ENGL-150

Transfers to: UC and CSU
C-ID: POLS 110

A course addressing both the philosophic roots and the contemporary operation of American national, state, and local government. Specific topics include constitutional development, federal-state relations, and the rights and obligations of citizens under both the federal and the California constitutions.

POLSC-12 State and Local Politics

(3 Units LEC) Grade only
Recommended Prep: ENGL-150 and POLSC-10

Transfers to: CSU

An introduction to state and local politics and government with emphasis on California. Specific topics include governors, state legislatures, state courts, local governments, current issues in state and local politics, California political history, and the California Constitution.

POLSC-20 Comparative Politics

(3 Units LEC) Grade only

Transfers to: UC and CSU
C-ID: POLS 130

A course examining the similarities and differences among political systems. Students will be introduced to diverse theoretical approaches and concepts in Comparative Politics in order to understand the political, economic, and social development of a variety of states.

POLSC-30 Campaigns and Elections

(3 Units LEC) Grade only
Recommended Prep: ENGL-150 and POLSC-10

Transfers to: CSU

An introduction to the theory and practice of U.S. political campaigns and elections. Students will learn about the purpose, significance, and impact of campaigns and elections through exploring and participating in political campaigns. Emphasis will be placed on electoral structures and institutions; changes in process and outcomes over time; and the determinants of vote choice.

■ Psychology [PSYCH]
PSYCH-1 General Psychology

(3 Units LEC) Grade only
Recommended Prep: ENGL-150

Transfers to: UC and CSU
C-ID: PSY 110

A course focusing on the scientific study of behavior and mental processes. The content of the course focuses on the exploration of major theories and concepts, methods, and research findings in psychology. Topics include biological foundations, perception, learning, cognition, emotion, motivation, development, personality, social psychology, psychological disorders and therapies, and applied psychology. This course is transferable to four-year colleges and

is a prerequisite for most upper division psychology courses.

PSYCH-2 Research Methods in Psychology

(3 Units LEC) Grade only
Prerequisite: PSYCH-1 and MATH-15

Recommended Prep: ENGL-1A
Transfers to: UC and CSU
C-ID: PSY 200

A course that surveys various psychological research methods with an emphasis on research design, experimental procedures, descriptive methods, instrumentation, and the collection, analysis, interpretation, and reporting of research data. Research design and methodology will be examined through a review of research in a variety of the subdisciplines of psychology.

PSYCH-2L Research Methods in Psychology Lab

(1 Unit LAB) Grade only
Prerequisite: PSYCH-1 and MATH-15 and PSYCH-2

Co-requisite: MATH-15 and PSYCH-2
Recommended Prep: ENGL-1A

Transfers to: CSU

A lab course that applies real-life application of various psychological research methods with an emphasis on research design, experimental procedures, descriptive methods, instrumentation, and the collection, statistical analysis, interpretation, and reporting of research data. Actual data collected from research conducted during laboratory sessions will be analyzed with statistical software.

Note: MATH-15 and PSYCH-2 may be taken prior to or concurrently with PSYCH-2L.

PSYCH-3 Psychology of Sexuality

(3 Units LEC) Grade only
Recommended Prep: ENGL-150

Transfers to: UC and CSU
C-ID: PSY 130

A comprehensive study of sexuality with an emphasis on individual differences. The course includes a study of sexual anatomy, sexual response, love and communication, sexual orientations, sexual identities, sexually transmitted infections (STI's) as well as maturation and transitions throughout the lifespan, sexual adaptations and disorders. The course is a scientific one and students are encouraged to apply research findings to their own lives.

Note: This course involves explicit discussions of sex and sexuality.

PSYCH-11 Lifespan Development

(3 Units LEC) Grade only
Recommended Prep: ENGL-150

Transfers to: UC and CSU
C-ID: PSY 180

A course covering the scientific study of human development across the lifespan. The content of the course focuses on the exploration of major theories and concepts, methods, and research findings in lifespan development. Topics include biological, cognitive, and psycho-social processes in the context of prenatal, infant, child, adolescent, and adult development.

PSYCH-20 Biological Psychology

(3 Units LEC) Grade only
Prerequisite: PSYCH-1

Recommended Prep: ENGL-1A
Transfers to: UC and CSU
C-ID: PSY 150

Introduction to the study of the biological bases of behavior. Topics include biological theories and scientific principles related to the understanding of brain-behavior relationships; general neuroanatomy, neurophysiology; neurotransmission and brain function; invasive and non-invasive research techniques and ethical standards for human and animal

research; research studies that have advanced the understanding of physiological, hormonal, neurochemical mechanisms; and brain-behavior relationships underlying the psychological phenomena of sensation, perception, regulatory processes, emotion, motivation, learning and memory, consciousness, and psychological disorders.

Note: Understanding the scientific method and its use in the study of human behavior. Awareness of the role of biology in the context of the biopsychosocial model of human behavior. Students should be able to read and write at the college level.

PSYCH-30 Social Psychology

(3 Units LEC) Grade only
Recommended Prep: ENGL-150

Transfers to: UC and CSU
C-ID: PSY 170

The scientific study of how thoughts, feelings, and behaviors are influenced by the actual, imagined, or implied presence of others. This course will explore the foundational aspects of the field including relevant research, theory, and practical application. In addition, this course addresses social issues such as prejudice, war, criminality and violence using current events to illustrate specific social-psychological constructs. Students will be given the opportunity to translate social psychological theory to actual classroom experiences that exemplify social influences on behavior.

PSYCH-33 Personal Growth and Adjustment

(3 Units LEC) Grade only
Recommended Prep: ENGL-350

Transfers to: CSU
C-ID: PSY 115

A course that has a focus in applied psychology. The course surveys psychological theories and empirical research as applied to personal growth, personality development and adjustment. The topics covered include: personality development, self esteem, stress and coping, health, psychology of love, sex and sex roles, mental health diagnoses, work and group behavior. Students will learn to apply psychological theories and principles to their own lives. Students are asked to look at their own barriers to personal effectiveness in learning, work and interpersonal relationships.

PSYCH-38 Abnormal Psychology

(3 Units LEC) Grade only
Recommended Prep: ENGL-150

Transfers to: UC and CSU
C-ID: PSY 120

A course in the scientific study of abnormal behavior. Various theoretical frameworks to evaluate behavior will be presented. Psychological and cognitive disorders will be studied, including diagnostic criteria, prevalence, etiology, and treatments.

■ Reading [READ]
READ-10 Book of the Year Discussion Group

(1 Unit LEC) P/NP option
Recommended Prep: ENGL-150

Transfers to: CSU

A discussion-driven study and exploration of selected topics related to the current Book of the Year selection. Students will analyze and discuss different aspects of the diverse viewpoints represented in and raised by the book.

READ-260 Developing Literacy

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A noncredit course that develops basic skills in reading and writing for students at all levels.

■ Restaurant & Hospitality Management [RHM]

RHM-1 Introduction to the Hospitality Industry

(3 Units LEC) Grade only
Recommended Prep: CIS-100
Transfers to: CSU

A course offering an historical perspective of the hospitality industry including industry globalization, technology, and ecotourism/green hospitality. The course covers all lodging and food service areas to provide students with understanding of each department and how it operates. Emphasis is placed on quality customer service and a positive guest experience.

RHM-3 Bar and Beverage Management

(3 Units LEC) Grade only
Recommended Prep: CIS-100
Transfers to: CSU

A course exploring the legal aspects of alcoholic beverage service in the hospitality industry. Examines professional beverage service, bar management and responsible beverage product marketing. Production of beer, wine, and spirits is explained. ServSafe Alcohol certificate from National Restaurant Association is awarded upon successful completion of exam.

RHM-6 Hospitality and Restaurant Marketing

(3 Units LEC) Grade only
Recommended Prep: CIS-100
Transfers to: CSU

A course exploring the practical applications of marketing and themes unique to hospitality and tourism. The course provides students with tools they need to successfully execute marketing campaigns for hospitality and restaurant business, including the market environment, customer behavior, marketing plans, product pricing, communications, and advertising and sales programs.

RHM-8 Controlling Foodservices Costs

(3 Units LEC) Grade only
Recommended Prep: CIS-100 and BUS-10
Transfers to: CSU

A course providing comprehensive resources and specific tools needed to maintain cost controls in a food and beverage operation. The course provides students with the skills necessary to apply standard cost control procedures in all aspects of operations.

RHM-10 Culinary Fundamentals

(3 Units LEC/LAB) Grade only
Prerequisite: RHM-17 or concurrent enrollment
Transfers to: CSU

Introduction to the professional kitchen. The emphasis of the course is on classical cooking techniques and the study of and training on commercial equipment, tools, ingredients, and basic cooking methods of the modern professional kitchen.

Note: Instructional materials fee of \$100.00 due at registration. Student also needs to supply own culinary knife set, chef's coat, and non-slip shoes.

RHM-14 Hospitality & Restaurant Management

(3 Units LEC) Grade only
Recommended Prep: CIS-100 and BUS-52
Transfers to: CSU

A course examining the dynamics of leadership in the hospitality industry including facilitation in the planning process, effective communications, employee performance, teamwork concepts, scheduling, daily operations, effective meeting management, managing compensation programs, and employee retention and terminations.

RHM-17 Sanitation - ServeSafe Certification

(3 Units LEC) Grade only
Recommended Prep: CIS-100
Transfers to: CSU

A course utilizing the National Restaurant Association ServeSafe program, the industry standard in food-safety training. Course provides up-to-date information for all levels of employees and students on all aspects of handling food, from receiving and storage to preparation and service. Completion of certified exam meets the nation-wide food handler permit requirement.

RHM-24 Hospitality Human Resource Management

(3 Units LEC) Grade only
Recommended Prep: CIS-100
Transfers to: CSU

A course detailing the rapid changes in human resource management in the hospitality industry. The course examines employment laws, employee orientation and training, work performance evaluations, compensation/labor issues, workplace safety, and ethical concerns in hospitality employment.

RHM-32 Hospitality Business Ownership

(3 Units LEC) Grade only
Recommended Prep: CIS-100
Transfers to: CSU

A course examining aspects of hospitality small business ownership including forms of ownership, legal operations, business plans, mission and vision statements, finances, market potentials, sales, customer service, and revenue streams. Special emphasis is placed on purchasing, vendor selection, quality and quantity requirements, and effective ordering procedures.

RHM-42 Restaurant and Hospitality Management Cooperative Work Experience

1-3 Units LAB) P/NP only
Repeatability: Maximum of three enrollments
Transfers to: CSU

A course designed to assist students in accomplishing learning objectives directly related to their restaurant and hospitality career goals or college course work in a supervised work environment that extends classroom-based occupational learning to an on the job learning situation. To participate in this course, the student's placement and course objectives must be related to their career goals or college course work.

Note: Students must meet with the Cooperative Work Experience (CWE) Coordinator before they can be enrolled in RHM-42. During fall and spring, students must be enrolled in at least 7 units (including CWE) to enroll in CWE. If enrolling in the summer, students must have been enrolled in at least 12 units (including CWE) in the previous spring semester. Students must take primary responsibility in finding a work experience opportunity. Some employers or programs may require fingerprinting, drug testing, and/or background checks. Students should be advised that a maximum of 9 CWE units can be applied toward a degree. Students may enroll a total of 3 times (repeatable twice). Variable 1.0 to 3.0 units, based on 60-225 work lab hours per semester.

■ Senior [SR]

SR-210 Introduction to Drawing for Older Adults

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A course designed to introduce older adults to drawing. Students will learn to use materials, work within the principles and elements of art, and complete a

project.

SR-220 Senior Chorus

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A course introducing older adults to a broad spectrum of choral music. Students will learn correct posture, breathing, enunciation and basic musical concepts.

SR-222 Music Ensemble for Older Adults

(0 Units LAB) P/NP only
Repeatability: No limit to enrollments

A course in the study and performance skills required for a music ensemble. The focus may be on traditional, contemporary, or jazz literature. Course addresses development of rehearsal techniques, sight-reading, public performance skills, historical background, and improvisation skills.

Note: Students should have mastered the fundamental techniques of their instruments prior to joining the ensemble.

■ Sign Language [SNLAN]

SNLAN-1A Elementary American Sign Language I

(4 Units LEC) Grade only
Transfers to: UC and CSU

A course introducing the basics of American Sign Language (ASL) through exposure to questions, commands, and other simple sentence structures. Students will develop a rudimentary conversational skill in ASL. Additionally, information about Deaf culture will be introduced.

Note: This course is not appropriate for students who have taken and passed two or more years of American Sign Language within the past three years.

SNLAN-1B Elementary American Sign Language II

(4 Units LEC) Grade only
Prerequisite: SNLAN-1A
Transfers to: UC and CSU

A course building on skill development begun in Elementary American Sign Language I by refining the use of basic sentence types. Students will learn intermediate ASL skills used in a variety of situations. Deaf cultural themes are examined throughout the course.

Note: This course is not appropriate for students who have taken and passed three or more years of American Sign Language within the past three years.

■ Sociology [SOC]

SOC-1 Introduction to Sociology

(3 Units LEC) Grade only
Recommended Prep: ENGL-150
Transfers to: UC and CSU
C-ID: SOCI 110

An introduction to the discipline of sociology including major theories, concepts and methods. Topics include: Sociological imagination, social structure and interaction, culture, social groups and organizations, and social institutions. Also includes inquiry into social inequalities such as race/class/gender/global stratification.

SOC-2 Social Problems

(3 Units LEC) Grade only
Recommended Prep: ENGL-150 or equivalent
Transfers to: UC and CSU
C-ID: SOCI 115

Students learn to identify and examine social problems using a sociological perspective. Sociological concepts and theories are used to analyze social problems. Social movements and solutions for social

change are explored.

SOC-3 Human Sexuality

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU

A comprehensive introduction to the study of sexuality, including topics such as media and sexuality, female and male anatomy and sexual response systems, communication, gender, sexual identity, orientation and variations, violence, lifespan sexual development, sex work, pregnancy and child birth, contraception, and Sexually Transmitted Infections. Social psychological and socio-political aspects of sexuality are emphasized. This class is academic and focuses on development of personal sexual philosophy.

SOC-5 Introduction to Race and Ethnic Relations

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU
 C-ID: SOCI 150

An introduction to the social construction of race and ethnic relations using an historical-comparative approach in global perspective. Examines the cultural, political, and economic practices and institutions involved in racial formation, racial and ethnic inequalities, and patterns of interaction among ethnic groups in the United States and abroad.

SOC-9 Introduction to Women's Studies

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU

Introduction to concepts and analytical tools used within a feminist framework to study intersections of social oppressions such as class, race and ethnicity, sexuality, age, dis/ability, and gender. Course focuses on the central roles played by socialization, social institutions, resistance movements, sociopolitical practices, and cultural representations of gender.

SOC-10 Sociology of Family and Intimate Relationships

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU
 C-ID: SOCI 130

An introduction to the sociology of families and intimate relationships, primarily through an examination of changing family forms and household structures in the United States and abroad. The course examines historical, cross-cultural, and socioeconomic variation in families and intimate relationships. Students will learn to use a comparative perspective in the assessment of the relationship between social policy and family resilience.

SOC-13 Environment, Culture, Society

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU

A comprehensive introduction to the critical and scientific study of societies in their environments. This course covers the basics of a comparative approach to the social mediation of sustainability, including the construction, analysis, and decision making involved in applying sociological knowledge to environmental issues. Topics include the study of institutions, development, labor, technology, population, governance, culture, conflict, inequalities, and social change.

SOC-15 Introduction to Social Research Methods

(3 Units LEC) Grade only
 Prerequisite: SOC-1 and ENGL-1A and MATH-15
 Corequisite: MATH-15
 Transfers to: UC and CSU
 C-ID: SOCI 120

An introduction to qualitative and quantitative methods used in the social sciences. Includes an overview of the relationships between social inquiry and research design, ethics and standards, the connections between social theory and methods, implications of sampling procedures for social inclusion, issues of validity and reliability, and the critical analysis and interpretation of professional research findings. Students will conduct and independent literature review and develop their own research project as part of the course.

SOC-33 Death and Dying: Transition and Growth

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150
 Transfers to: CSU

A cultural, psychosocial, medical, and spiritual examination of the process of dying. Sociological Imagination is used with a multicultural approach in focusing on death, dying and bereavement in US society. Topics include euthanasia, suicide, the stages of dying, children and death, and the funeral industry.

SOC-34 Introduction to Social Work

(3 Units LEC) Grade only
 Recommended Prep: ENGL-150
 Transfers to: CSU

An introduction to the central ideas, values and methods of social work practice, studied from the historical background and contemporary fields of service. The generalist method of social work will be introduced and human diversity will be emphasized.

SOC-38 Field Placement Seminar I

(2 Units LEC) Grade only
 Prerequisite: SOC-34
 Corequisite: SOC-34 and SOC-42
 Recommended Prep: ENGL-150
 Transfers to: CSU

A focused exploration of case studies utilizing social work theory, emphasizing the development of social work skills, the principles of agency organization, and the nature of community social need and problems.
 Note: Same as ADCT-38. Field trips are required and the College does not provide transportation.

SOC-42 Supervised Occupational Work Experience 1

(2.5 Units FEX) Grade only
 Prerequisite: SOC-34
 Recommended Prep: ENGL-150
 Transfers to: CSU

A supervised work experience at a local community or campus social service agency providing the opportunity for the integration of social work theory, developing hands-on skills, understanding agency organization, and creating a knowledge base regarding community social need and problems.
 Note: Field trips are required and the College does not provide transportation. The student, with assistance from the instructor, is responsible for locating and arranging for the contracts with the agency to complete the 135 hours.

■ Spanish [SPAN]

SPAN-1A Elementary Spanish I

(4 Units LEC) Grade only
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU
 C-ID: SPAN 100

A beginning course that presents the fundamentals of Spanish and provides the tools for students to acquire elementary linguistic proficiency. The course emphasizes the communicative use of all language skills: listening, speaking, reading, and writing. Special emphasis is placed on providing insights into the cultural diversity of the Spanish-speaking world.

Note: This course is not appropriate for students who have taken and passed two or more years of Spanish within the past three years.

SPAN-1B Elementary Spanish II

(4 Units LEC) Grade only
 Prerequisite: SPAN-1A
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU
 C-ID: SPAN 110

A continuation of SPAN-1A, this course presents the fundamentals of Spanish and provides the tools for students to improve linguistic proficiency. The course emphasizes the communicative use of all four language skills: listening, speaking, reading, and writing. Special emphasis is placed on providing insights into the cultural diversity of the Spanish-speaking world.

Note: This course is not appropriate for students who have taken and passed three or more years of Spanish within the past three years.

SPAN-2A Intermediate Spanish I

(4 Units LEC) Grade only
 Prerequisite: SPAN-1B
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU
 C-ID: SPAN 200

An intermediate interactive course that emphasizes real and meaningful communication to develop and refine students' speaking, listening, reading and writing Spanish language skills. It provides the tools for students to acquire intermediate linguistic proficiency. Special focus is placed on cultural awareness and appreciation of the diversity of the Spanish-speaking world.

SPAN-2B Intermediate Spanish II

(4 Units LEC) Grade only
 Prerequisite: SPAN-2A
 Recommended Prep: ENGL-150
 Transfers to: UC and CSU
 C-ID: SPAN 210

A continuation of Intermediate SPAN-2A, this course emphasizes real and meaningful communication to develop and refine students' speaking, listening, reading and writing Spanish language skills. It provides the tools for students to acquire mid to high intermediate linguistic proficiency. Special focus is placed on cultural awareness and appreciation of the diversity of the Spanish-speaking world.

SPAN-11A Beginning Conversational Spanish I

(3 Units LEC) P/NP option
 Recommended Prep: ENGL-350
 Transfers to: CSU

A beginning course in conversational Spanish that emphasizes pronunciation, vocabulary building, and speaking. Students acquire elementary linguistic proficiency through situational practice. The concepts and vocabulary presented are designed to be useful in routine communication with Spanish speakers. Additional emphasis is placed on providing insights into the cultural diversity of the Spanish-speaking world.

Note: This course is not appropriate for students who have taken and passed two or more years of Spanish within the past three years.

SPAN-99A Latin American Cinema*(1 Unit LEC) P/NP option**Transfers to: CSU*

An introduction to the culture and social issues of Latin America through its films. The course will also further the student's insight into everyday language usage as it relates to Latin American identities, mores, and customs.

Note: Units offered may vary by semester. Repeatable to a maximum of 4 enrollments; students may not repeat an individual topic.

■ Vocational Training [VOC]**VOC-230 Starting a Home-based Business***(0 Units LAB) P/NP only*

Repeatability: No limit to enrollments A noncredit course providing instruction in the basics of how to set up and run a successful home-based business. Students will sharpen entrepreneurial skills and learn how to make the most out of self-employment opportunities. Topics include legal structure, permits, start-up costs, financing options, tax planning, sound bookkeeping practices, marketing strategies and creating an online presence.

VOC-251 Keep Track of Finances in Excel*(0 Units LAB) P/NP only**Repeatability: No limit to enrollments*

A noncredit course introducing students to the basics of Excel in order to track income and expenses. Students learn how to design and create clear and easily navigable spreadsheets. Topics include creating simple formulas, using tables, and sorting and filtering data. The focus is on harnessing the abilities of Excel to increase productivity and maximize savings for those who are self-employed or on fixed or limited incomes.

■ Welding Technology [WT]**WT-40 Independent Study in Welding Technology***(0.5-2 Units IND) Grade only**Transfers to: CSU*

Individual research and special projects in Welding Technology. Specific projects will be determined upon consultation with instructor.

Note: Students taking an independent study course must have an approved contract on file.

WT-53 Basic Gas and Arc Welding*(2 Units LEC/LAB) Grade only**Transfers to: CSU*

An introduction to basic oxyacetylene (OAW) and electric arc welding (SMAW) theory, equipment, and processes. Students will produce and analyze welds and cuts to accepted industry standards. No prior experience in welding is needed. Includes coordinated lab experience.

WT-54 General Gas, Braze (emphasis) Welding, and Soldering*(2 Units LEC/LAB) Grade only**Transfers to: CSU*

An introduction to and practice in oxyacetylene (OAW), braze welding (OABW), soldering (AAW), and repair welding theory, equipment, and processes. Students will produce, analyze and test welds to accepted industry standards. No prior experience in welding is needed. Includes coordinated lab experience.

WT-56 Intermediate Arc and Gas Welding Lab*(1 Unit LAB) Grade only**Prerequisite: Completion of or concurrent enrollment*

in one of the following courses: WT-53, WT-54, WT-60, WT-61, WT-63 or WT-64.

Transfers to: CSU

An intermediate skill level lab in oxyacetylene welding (OAW), cutting (OAC), and shielded metal arc welding (SMAW). Students will produce, analyze, and test flat and out of position welds on mild steel.

Note: Students provide their own safety gear and equipment (list of requirements given first class meeting). OSHA approved safety glasses required at first class meeting.

WT-60 Welding Gas and Arc (emphasis E6013), and Gas Cutting*(4 Units LEC/LAB) Grade only**Transfers to: CSU*

A course in oxy-acetylene welding (OAW) and cutting (OAC), and stick welding (SMAW). Students will produce and analyze welds and cuts on mild steel. Coordinated lab experience is included, and no prior experience in welding is needed.

Note: Students provide their own required safety gear and equipment (list of requirements given first class meeting). OSHA approved safety glasses required by second class meeting.

WT-61 Welding and Gouging, Gas and Arc (emphasis E7018, Braze)*(4 Units LEC/LAB) Grade only**Transfers to: CSU*

A course in oxy-acetylene welding (OAW, OABW), cutting (OAC), arc welding (SMAW) and gouging (CAC). Students will produce and analyze welds and cuts on mild steel. Coordinated lab experience is included, and no prior experience in welding is needed.

Note: Students provide their own required safety gear and equipment (list of requirements given first class meeting). OSHA approved safety glasses required by second class meeting.

WT-63 Weld inspection, testing, resistance, and pattern cutting*(4 Units LEC/LAB) Grade only**Transfers to: CSU*

A course in repair and qualification procedures, inspection, testing, layout, pattern cutting, and resistance welding. Students will produce and analyze welds (emphasis E7018) and cuts on mild, low alloy, and sheet steel to accepted industry standards. Coordinated lab experience is included, and no prior experience in welding is needed.

Note: Students provide their own required safety gear and equipment (list of requirements given first class meeting). OSHA approved safety glasses required by second class meeting.

WT-64 Welding (emphasis cored wire), Surfacing, Lancing, and Automated Cutting*(4 Units LEC/LAB) Grade only**Transfers to: CSU*

A course in hard surfacing, flux core arc welding (FCAW), automated torch and plasma cutting, oxygen lance piercing. Students will produce and analyze welds and cuts on mild and alloy steels. Coordinated lab experience is included, and no prior experience in welding is needed.

Note: Students provide their own required safety gear and equipment (list of requirements given first class meeting). OSHA-approved safety glasses required by second class meeting.

WT-67 Special Welding Laboratory (emphasis AWS certification)*(2 Units LAB) Grade only*

Prerequisite: Completion of or concurrent enrollment in one of the following courses:

WT-53, WT-54, WT-60, WT-61, WT-63 or WT-64.

Transfers to: CSU

A lab only course prepares students to take the American Welding Society (AWS) welder certification exam. Students will produce, analyze and test welds to accepted industry standards.

Note: Students must provide safety gear and equipment (list of requirements given first class meeting). OSHA approved safety glasses needed for first class meeting.

WT-80 Welding Fabrication*(2 Units LEC/LAB) Grade only**Transfers to: CSU*

An introductory level practice of welding fabrication and weld print reading. The student will learn how steel is made, processed, formed, typed, and gauged. Also how to choose structural shapes and weld with appropriate techniques to industry standards. Includes coordinated lab experience.

Note: Students provide their own required safety gear and equipment (list of requirements given first class meeting). OSHA approved safety glasses needed first class meeting.

WT-90 Gas Metal Arc and Gas Tungsten Arc Welding*(2 Units LEC/LAB) Grade only**Prerequisite: WT-53 or WT-54 or WT-60**Transfers to: CSU*

A course in gas metal arc (GMAW) and gas tungsten arc (GTAW) welding, and plasma cutting (PAC) theory, equipment, and processes. Students produce, analyze, test welds and cut both ferrous and nonferrous materials such as mild steel, aluminum and stainless steel. Includes coordinated lab experience.

Note: Students provide their own required safety gear and equipment (list of requirements given first class meeting). OSHA approved safety glasses required by second class meeting.

WT-91 Gas Metal Arc and Gas Tungsten Arc Welding Lab*(1 Unit LAB) Grade only**Prerequisite: WT-90 or concurrent enrollment**Transfers to: CSU*

A lab only course in gas metal arc (GMAW) and gas tungsten arc (GTAW) welding, and plasma arc cutting (PAC) providing students more time to develop skills.

Note: Students provide their own required safety gear and equipment (list of requirements given first class meeting). OSHA approved safety glasses required by second class meeting.

■ Work Skills [WORK]**WORK-201 Work Readiness Skills for the 21st Century***(0 Units LAB) P/NP only**Repeatability: No limit to enrollments*

A course in developing 21st century career readiness skills. The focus is on career preparation and improving workplace skills such as effective communication and teamwork. Topics include writing resumes and cover letters, and the essentials for preparing for job interviews. Instruction is individualized according to student need.

WORK-220 Excellent Customer Service*(0 Units LAB) P/NP only**Repeatability: No limit to enrollments*

A noncredit course on the key skills and attitudes required for effectively delivering internal and external customer service in the workplace. Students will study how to understand and exceed customer expectations, how to better communicate with customers, and how to deal with unrealistic customer

expectations.

WORK-221 Stress Management

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course studying the key elements of stress management. Topics will include the recognition of stress, causes of stress, and the benefits of stress management. Various stress management techniques will be covered.

WORK-222 Communication in the Workplace

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course studying the key elements of communication within business organizations. Topics will include verbal and nonverbal communication, listening skills and specific workplace communication skills, including telephone and e-mail communication.

WORK-223 Happiness and Success at Work

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course studying personal attitude and its effects in the workplace and at home. Students will explore how attitudes are communicated and how to turn negative thinking into positive thinking. This course enhances cooperation, loyalty, and productivity so that students can become happy and successful in their lives and careers.

WORK-224 Conflict Management

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course, providing an introduction to conflict management, including strategies for dealing with difficult people and interpersonal discord.

WORK-225 Decision Making and Problem Solving

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course introducing decision-making and problem-solving techniques in the workplace. Specific strategies for making decisions and solving problems will be presented, as well as the use of creativity in identifying solutions.

WORK-226 Handling Organizational Change

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course providing an overview of the effect change has on an organization and the individuals in it. Topics will include understanding organizational change, stages of change, and how to manage organizational change.

WORK-227 Team Building

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course introducing workplace teamwork and team building strategies. Students will learn to recognize various personalities and how their strengths and weaknesses impact a team. Guided classroom activities will build skills in effective team management.

WORK-228 Ethics and Values

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course introducing the importance of professional values and ethics in the workplace. Emphasis will be placed on how values influence actions, evaluating one's ethical behavior, and behaving ethically in the workplace.

WORK-229 Time Management

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course introducing time management principles and specific tools that assist in making maximum use of time. Emphasis will be placed on prioritizing, identifying time wasters, and goal setting.

WORK-230 Anger Management in the Workplace

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course in anger and the various forms of aggression in the work environment. This course addresses the differing types and definitions of forms of anger and how these are manifested in the workplace. Topics include looking at causes of anger and ways to deal with anger. Students will also explore methods for controlling and preventing workplace anger and violence.

WORK-250 Custodian Training

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course covering the major aspects of custodial and janitorial work. Course includes general cleaning techniques, cleaning equipment use and maintenance, cleaning chemicals, window care, maintaining hard floors, carpet and upholstery care, chemical hazards, Cal OSHA regulations, and handling of infectious waste as they apply to the janitorial industry.

WORK-252 Custodian: Basic Maintenance

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course in preventative maintenance and simple repair for residential and light commercial buildings. Topics include repairing flooring, painting, heating and cooling, roofing, plumbing, electrical, framing, installation, drywall, concrete, safety, tools, etc., as they apply to custodial maintenance and repair duties.

WORK-271 Cash Handling

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course providing training in accurate and efficient cash handling at work. Students will learn about the main responsibilities of an employee who is required to handle cash or other transactions. Topics include reconciling cash receipts, theft prevention, and what to do when you are over or short at the end of the shift.

WORK-274 Hotel Front Desk Clerk

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course providing training in exemplary customer service as a hotel front desk clerk. Students will learn about the operations of the front desk and how to offer a quality guest experience from registration to check-out. Topics include processing guest arrivals and departures, handling guest complaints, and dealing with safety and security issues at the hotel.

WORK-280 Working with Seniors

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course providing instruction in the knowledge, skills, and appropriate standards of conduct required for working with seniors. This is vocational training for anyone who works on a regular basis with older adults including service providers, business owners, or community members. Topics include the social and physical changes that accompany aging, the use of common assistive devices, and

common myths related to aging.

WORK-282 Communicating in American Sign Language

(0 Units LAB) P/NP only

Repeatability: No limit to enrollments

A noncredit course for educators, service providers and community members who need to communicate with deaf, hard of hearing, or nonverbal people on a regular basis. Students will be introduced to the basics of American Sign Language (ASL) and the signs most commonly used in daily life. Topics include vocabulary related to everyday life situations, simple questions, and key cultural differences and expectations when communicating with people who are deaf or nonverbal. The emphasis is on functional language and communication skills.

■ Yurok [YUR]

YUR-1A Elementary Yurok I

(4 Units LEC) Grade only

Recommended Prep: ENGL-150 or ENGL-102

Transfers to: CSU

An interactive, beginning course that builds vocabulary and presents the fundamentals of Yurok conversation. Yurok I provides the tools for students to acquire basic linguistic proficiency that aligns with the Novice Yurok speaking competency level in accordance with the ACTFL performance descriptors. The course teaches interpersonal, communicative use of all language skills, but places a particular emphasis on listening and speaking.

Note: This course is not appropriate for students who have taken and passed three or more years of Yurok within the past three years.

COMMUNITY EDUCATION & BUSINESS TRAINING CENTER



525 D Street, Eureka, CA 95501 | 707-476-4500

The Community Education program provides a wide range of educational opportunities throughout Humboldt and Del Norte Counties. Classes, programs, training, and workshops are offered as short-term workforce training and/or lifelong learning opportunities. These not-for-credit classes are designed to develop professional skills, enhance career opportunities, enrich personal knowledge, as well as promote cultural and academic growth. Most classes can be offered at a CR location, a community location, or a business site.

Community Education

Class offerings may include subjects such as art, computers, consumer issues, self-improvement, home and garden, and photography. Classes may also be designed to meet the specific needs of a business or organization. Community Education classes may be offered during the day, evening, and/or weekend. These not-for-credit classes and workshops are fee-based.

Professional Development

Professional Development educational opportunities range from job-related workshops and seminars to full-semester courses. Typical not-for-credit courses include Computer Software Training, Management Skills, Conflict Resolution, Customer Service, and Spanish for the Workplace.

Customized Training

To remain competitive in today's marketplace, businesses must rely on the continued optimal performance of their most important asset, their employees. College of the Redwoods responds to this immediate need by providing a full range of customized training services that increase the employees' knowledge and skill base. These results translate to a high return on investment in the form of higher employee productivity, time savings, and better quality products. Classes include Microsoft Office trainings in Word, Excel, PowerPoint, Outlook, and Publisher. In addition, we offer Abode Photoshop,

management and conflict resolution skills, customer service, and more. Let us know your requests and we will create the perfect training to suit your business needs.

Truck Driving

This program provides training and a background for most truck driving jobs. It involves lecture and driving time. Topics include gauges and instruments, safety, shift patterns for various transmissions, brake systems and adjustment. Students also receive "S" CAM Brake Certification. Upon successful completion of the course, students receive a certificate and will be accompanied to the DMV for their Class A License test.

Business Training Center

The Business Training Center (BTC) focuses on increasing the employment related skills of the region's workforce by providing appropriate practical training to present and future employees. The BTC provides support to businesses to grow and compete by providing quality, timely, and relevant training to their employees. Classes range from several hours to week-long trainings that meet the needs of the community. College of the Redwoods is especially interested in meeting the needs of all businesses, small and large.

Real Estate

Training approved to meet the requirements to sit for the California Real Estate License examination. Classes are offered through either a distance learn-

ing program, which is completed at home with no classroom attendance, or through in-person classes. Additional workshops are also available. (California Bureau of Real Estate ID#S0086)

Health Care

Certain not-for-credit health care classes are available, such as phlebotomy, pharmacy technician, certified medical assistant, injections, venipuncture and IV Therapy for medical assistants, CNA's, and LVN's under the supervision of a Physician. EMT refresher courses and CPR trainings are also offered.

CR Plus

CR Plus is ageless learning for those over 50. CR Plus offers a variety of classes including beginning and intermediate computer skills, art, Introduction to Drawing, Senior Chorus, and other personal enrichment topics. Classes are not-for-credit, but do help seniors learn new skills and have fun. Classes start throughout the year and meet at various CR locations throughout the District.

Registration

Registration is available by phone, mail, fax, or in person. Visit our website for more information about registration: www.redwoods.edu/communityed/Register-for-Classes.

Visit www.redwoods.edu/communityed for the current class schedule.

FACULTY AWARDS

Each year the Academic Senate of College of the Redwoods honors one full-time faculty member and one part-time faculty member from each campus for their outstanding performance, achievements, and service to the college. These outstanding members of the faculty are designated by the Senate as "Faculty of the Year." Members of the faculty who have been awarded this distinguished title are listed below.

Outstanding Faculty Member

1970-71	Van Tanner	1995-96	Bill Treglown	Becky Blatnick (DN)	
1971-72	Florence Brown	1996-97	Sandra Vrem	John Johnston (MC)	
1972-73	James McAuley	1997-98	Patricia McCutcheon	2007-08	Dave Bazard (EKA)
1973-74	Robert Thomas	1998-99	David Banducci	Carol Mathews (DN)	
1974-75	Rae Graham	1999-00	Bert Walker (EKA)	Aeron Ives (MC)	
1975-76	Jack Storm		Carol Mathews (DN)	2008-09	John Johnston (EKA)
1976-77	Dennis McKenzie		Teresa Sholars (MC)	Ken Letko (DN)	
1977-78	John Cooper	2000-01	Bob O'Connell (EKA)	2009-10	Jan Tatum (EKA)
1978-79	Wilson Kale		Ken Letko (DN)	Ruth Rhodes (DN)	
1979-80	David Mills		Bob Winn (MC)	Bob Rhoades (MC)	
1980-81	Mary Zinselmeir	2001-02	Dave Arnold (EKA)	2010-11	David Holper (EKA)
1981-82	Wallace Pedrotti		Sharon Mellett (DN)	Melody Pope (DN)	
1982-83	Norman Ladd	2002-03	Steve Brown (EKA)	David Gonsalves (MC)	
1983-84	Floyd Bettiga		Darlene McClure (DN)	2011-12	Peter Blakemore (EKA)
1984-85	David Harris		James Ritter (MC)	Becky Blatnick (DN)	
1985-86	Harold Snelgrove	2003-04	Karen Sperry (EKA)	Michael Burns (MC)	
1986-87	John Regli		Tom Owen (DN)	2012-13	Justine Shaw (EKA)
1987-88	Ben Hawkins		Greg Grantham (MC)	Mike Haley (DN)	
1988-89	Marian Perry	2004-05	Paul Farnham (EKA)	Martha Racine-Taylor (MC)	
1989-90	Carole Bright		Bob Mize (DN)	Gregory Grantham (MC)	
1990-91	Bill Henry		Teresa Sholars (MC)	2013-14	Mark Renner (DN)
1991-92	Barbara Morrison	2005-06	Pam Kessler (EKA)	Kerry Mayer (EKA)	
1992-93	Glenn Stockwell		Mark Renner (DN)	2014-15	Bob Brown
1993-94	Jerrold Moore		Martha Racine (MC)	2015-16	George Potamianos
1994-95	Steve Durham	2006-07	Allen Keppner (EKA)		

Outstanding Associate Faculty Member

1989-90	Richard Kandus	2002-03	Jack Stafford (DN)	2009-10	Colette Beaupré (EKA)
1990-91	Hal Genger		Bill Hiney (EKA)	Skip Hunter (DN)	
1991-92	Maralyn Renner	2003-04	Nancy Schafer (EKA)	2010-11	Sean Herrera-Thomas (EKA)
1992-93	Bill Harger		Wayne Bricco (DN)	Jennifer Gardner (DN)	
1993-94	Judith Hinman		Steve Jordan (MC)	2011-12	Robert Horel (DN)
1994-95	Chris Christensen	2004-05	Jannez Wade (EKA)	2012-13	Amber Buntin (EKA)
1995-96	Darrel Durst		Kirk Olesen (DN)	Deborah Gerth (DN)	
1996-97	Susan Brant	2005-06	Lisa Townsend-Schmitt (EKA)	2013-14	Sarah Broderick (DN)
1997-98	Bill Crowe		Tom Walradt (DN)	Deborah Dixon	
1998-99	All Associate Faculty	2006-07	Adria Zimmerman (EKA)	2014-15	Jay Patton
1999-00	Gay Scott (EKA)		Kathy Imfeld (DN)	2015-16	Colette Beaupré
	Carolyn Steinbuck (MC)	2007-08	Nezzie Wade (EKA)		
2000-01	Mimi La Plant (EKA)		Barry Bates (DN)		
2001-02	Ann Marie Woolley (EKA)	2008-09	Danny Walker (EKA)		
	Mike Selfridge (DN)		Susan Andrews (DN)		
	Suzanne Byerley (MC)		Charlotte Gullick (MC)		

EMERITUS

Adams, Richard A.
Business

Anderson, Bryant (Brooks)
Counselor

Ballantyne, Orrel
Biology

Banducci, Dave
Physical Education

Bartley, Jerrie
Early Childhood Education

Bennett, Richard
Dean CRDN

Benson, Bob
Art

Bettiga, Floyd
Art

Boyd, Dean
Music/Speech

Brewer, Samuel A.
Spanish and French

Briggs, Ellsworth R.
V. P. Instruction

Bright, Carole
Sociology/Counselor

Brown, Florence
Reading Laboratory

Bumpus, Ralph E.
Auto Mechanics

Burns, Michael
Fine Woodworking

Butz, Alfred,
*Science/Math/Engineering/Geology/
Geography*

Cables, Merle L.
Economics

Carranco, Lynwood
English

Cinnamond, Roger H.
Art

Civiletti, Margaret
Information Science

Collins, Dale
Assist. to Exec. Vice President

Cooley, Donald A.
Aeronautics/Applied Tech

Cooper, John
Psychology

Cox, Mike
Physical Education

Coyle, Bill J.
Computer & Electronic Technology

Crossan, Thomas (Tom)
Applied Technology

Dart, Richard E.
Truck Driving

Dawson, Lawrence (Larry)
Psychology

Doyle, Larry
*Machine Tool Technology/Industrial
Technology*

Dresser, Judy
Business

Dunleavy, Kady
Nursing

Durham, Steve
Sociology

Emmons, Jerry
Speech

Erickson, Erick A.
Electronics

Farnham, Paul
Chemistry

Forthun, Philip L.
Journalism

Foster, Marcy
Counseling

Frazier, Larry
English

Freitas, Milton (Milt)
Applied Technology

Furber, Robert (Bob)
Information Science

Giacomini, Thomas
Physical Education

Gibbs, Janne
Nursing

Ginsburg, Arlin
History

Graham, Rae J.
Court Reporting

Grantham, Gregory
Marine Science

Greene, Richard (Pat)
Science

Guffey, Jerome
Business

Hammel, Barbara
Psychology/Sociology

Hanchett, Warren C.
Forestry

Hannah, Thomas S.
*Dean, Administrative
Services*

Harris, Dave
Computer Information Systems

Hartnack, Wilhelmine (Willie)
French/German

Hawkins, Bernard (Ben)
Biology

Henry, William D. Jr.
Construction Tech

Hinman, Judith
English

Hoopes, Bill
English

Hoopes, Chad
History

Jenkins, Diane
Business

Johnson, Allen
Applied Technology

Johnson, Bert B.
English

Johnson, Clyde
Multimedia

Johnson, Milo
Chemistry

Kale, Wilson (Will)
Forestry

Kaloostian, Rodney
Special Programs

Kavanaugh, Joan
Health Occupations

Keppner, Allen J.
Director, Transfer Center/Counselor

Kessler, Pam
Arts & Humanities/English

Kilpatrick, Ron
Administration of Justice

Kobrin, LaRue
Psychology

Korn, Gary
Librarian

Krenov, James
Fine Woodworking

Larson, Sydney
*Health, Physical Education & Athletics/
Early Childhood Education*

Leach, Albert C.
Music

Lemley, William D.
English

Lucchesi, Charles,
*Physical Education,
V.P. Student Personnel*

Lude, Carl J.
Counselor

Mathews, Carol J.
Counselor

McAuley, James (Jim)
Physical Education

McClure, Darlene
*Business/Computer
Information Systems*

McCorkendale, Thomas (Tom)
Applied Technology

McCutcheon, Patricia
English

McKnight, Gregory
Cooperative Education Program

Mackey, Miles
Chemistry

Mease, Ana Maria
Spanish

Mellet, Sharon
*Lic. Vocational Nursing/Registered
Nursing*

Miller, Robert (Bob)
*Legal Assistancy
Court Reporting*

Mills, David
Physics

Mize, Robert
Biology

Moore, Jerrold (Jerry)
Music

Morris, Charles S.
Dean, Community Services

Morris, William
English

Morrison, Barbara
English

Nash, Lewis H.
Philosophy

O'Connell, Robert (Bob)
Astronomy

Olsen, Michele
Mathematics

Owen, Thomas S.
History/Political Science

Padilla, Patricia
Spanish

Patterson, Ben
Applied Technology

Pedrotti, Wallace
Physics/Mathematics

Peloso, Vincent
General Studies

Perry, Marian
Health/Physical Education

Phillips, Jerry
Counselor

Racine-Taylor, Martha N.
Business/Spanish

Reed, Malcolm
Business

Regli, John T.
Agriculture/Economics

Reid, Ellen
Business

Reiner, Ralph
Biology

Rhoades, Robert
Art

Richter, L. E.
Director, Occupational Education

Ritter, James (Jim)
Counselor

Roseth, Sonja (Velasco)
Special Ed/ DSP&S

Sarboe, Philip J.
*Athletic Director and Chairperson,
Health, Physical Education and
Recreation*

Sarley, Virginia
English

Savage, Barry
Research Development

Seaman, Bob
PE/Athletics

Sholars, Teresa
Life Science

Shapeero, Bill
Biology

Six, Gerald P.
Dean, Student Services

Sloan, Garland V.
Construction Technology

Smith, Vernon A.
History/Political Science

Snelgrove, Harold (Hal)
English

Soper, Ernest W.
Metals Technology

Spencer, Walter A.
Mathematics

Sperry, Karen
Dental Assisting

Sprankle, Maureen
Information Science

Stewart, Margaret
Nursing

Stockwell, Glenn
Political Science

Stodder, Ted
*Career & Technical Education/
Construction Technology*

Storm, Richard J. (Jack)
Anthropology/History

Tanner, Van H.
Police Science; Director, Public Safety

Taylor, Sandra
Mathematics

Thomas, Michael
Philosophy

Thomas, Robert
Biology

Valdi, Gary
Counselor

Vellis, Lewis J.
*Construction Technology; Dean,
Counseling; Counselor*

Vrem, Sandra
Mathematics

Walker, Bert
Agriculture

Wares, Dorothy
Nursing

Wells, Michael J.
Administration of Justice

Wilkins, Robert E.
Business

Winn, Robert
English/History

Winger, Keith
Diesel Mechanics

Wold, Cristie
Nutrition/Family Life Education

Woolley, Ann Marie
Early Childhood Education

Woychak, Michael
Physical Education

Yokoyama, Kevin
*Math, Science, Behavioral & Social
Sciences/Mathematics*

Zinselmeir, Mary
Counselor

FACULTY & ADMINISTRATION

BAKER, Tim

Forestry/Natural Resources
B.S., M.S., University of Georgia
Ph.D., North Carolina State University

BAZARD, David R.

Dean, Math, Science, Behavioral and Social Sciences
B.A., Humboldt State University
M.S., Western Washington University
Ph.D., University of Arizona

BLAIR, Patricia

Lead Learning Disabilities Specialist
B.S., M.Ed., Ph.D., University of Alberta

BLAKEMORE, Peter

English
B.A., University of Iowa
M.A., M.F.A., University of Montana
Ph.D., University of Oregon

BUNTIN, Amber

Mathematics
A.A., College of the Redwoods
B.A., M.A., Humboldt State University

BROWN, Robert

Associate Dean, Health, Physical Education and Athletics
A.S., Treasure Valley College
B.S., Eastern Oregon University
M.S., Humboldt State University

BROWN, Steve

Drafting
A.A., Golden West College
B.A., M.A., California State University, Long Beach

BRYANT LESCHER, Nicole

English
B.A., University of Michigan, Flint
M.A., Eastern Michigan University

BURLISON, Jennifer

Counselor
B.A., M.A., Humboldt State University

BUTLER, Michael P.

Mathematics
A.A., Santa Rosa Junior College
B.A., M.S., Humboldt State University

CALDERWOOD, Dan

Computer Information Systems
B.S., Humboldt State University
M.A., University of Phoenix

CALLAHAN, Christopher

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DE CLEYRE, Andrea

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M.A., Antioch University

DUBROW, David

Chemistry
B.S., Penn State Erie, The Behrend College
Ph.D., University of California - Berkeley

EMENAKER, Ryan

Political Science
B.A., M.A., Humboldt State University

FARRAR, Roberta

Nursing
A.S.N. & B.S.N., Regents College
M.N., Oregon Health & Science University

FLOREZ, Anibal

Automotive Technology
B.S., Humboldt State University

FRENEAU, Philip

Early Childhood Education
B.S. & M.A., Arizona State University
M.Div. & Th.D., Claremont Graduate School

GAINES, Christopher

Business
B.S., M.B.A., Humboldt State University

GILL, William

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Construction Technology
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GLEAVE, Marla

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M.A., Humboldt State University

HAFAR, Ralph

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HAGGERTY, Michelle

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Mathematics
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HALL, Sheila

Director, Counseling and Student Development
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M.Ed., Humboldt State University

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HERRERA-THOMAS, Deanna

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HERRERA-THOMAS, Sean

English
B.A., Humboldt State University
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HILL, Angelina

Vice President of Instruction and Student Development
B.A., University of California, Santa Cruz
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HOLE, William D.

Construction Technology
A.A., Diablo Valley College
B.S., Humboldt State University

HOLPER, David E.

English
B.A., Humboldt State University
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HOOPER, Cynthia

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Mathematics
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Computer Information Systems
B.A., M.A., California Polytechnic State University, San Luis Obispo

JARVI, Mickey

Forestry/Natural Resources
A.A., Edison College
B.S., M.S., Ph.D., Michigan Technological University

JOHNSON, Bernadette

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A.A., College of the Redwoods
B.A., Humboldt State University
M.B.A., M.S., University of Phoenix

JOHNSON, Kintay

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English
B.A., M.A., California State University, Long Beach

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B.A., B.S., New England College
M.Ed., Antioch University
Ph.D., Utah State University

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B.S., M.S., Ph.D., University of California, Santa Cruz

LaPENTA, Diqui

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LETKO, Kenneth G.

English
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LINDSEY, Lee

Vice President, Administrative Services
B.A., Louisiana Tech University

LUEHRS, Anthony

Mathematics
B.A., Western State Colorado University
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MACAN, Ed

Music
B.M., Oakland University
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MAHER, Dana

Sociology
B.A., M.A., California State University,
Sacramento
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MALT, Monica

Nursing
B.S.N., M.S.N., University of Phoenix

MANCUS, Philip

Psychology/Sociology
B.A., Berry College
M.A., University of West Georgia
Ph.D., University of Oregon

MARGULIS, Natalia

Art
B.A., Hunter College
M.A., Dartmouth College
M.A., Brooklyn College
M.F.A., University of California, Los Angeles

MATSUMOTO, Teresa

Mathematics
B.A., M.S., Humboldt State University

MAYER, Kerry

Communications Studies
B.A., Humboldt State University
M.A., University of California, Santa Barbara

MCCANN, Matthew

Counselor
B.S., California State University, Fullerton
M.A., Azusa Pacific University,
Ph.D., Alliant International University

MERIWETHER, William

Political Science
B.A., Brescia University
M.A., American Military University

MOON, Ruth

Librarian
B.A., Humboldt State University
M.L.I.S., University of Hawaii, Manoa

NORDLOF, Susan

English
B.A., University of Arizona
M.A., Humboldt State University

NORTON, Cheryl

Counselor
B.A., Western Washington University
M.A., Chapman University

OLSEN, Todd

Mathematics
B.A., M.S., Humboldt State University

PACE, Jonathan

Mathematics
B.A., M.S., Humboldt State University

PEDICINO, Jon

Astronomy
B.A., Dartmouth College
Ph.D., University of Arizona

PETERSON, Mike

Manufacturing Technology
2 C.A., College of the Redwoods
B.A., Humboldt State University
M.S., Purdue University

POPE, Melody

Nursing
A.S., John A. Logan College
B.S., McKendree College
M.S., Eastern Illinois University
M.S., Ed.D., University of Phoenix

POTAMIANOS, George

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B.A., University of Illinois
M.A., Ph.D., University of Southern California

REED, Hillary M.

Dental Assisting
A.S., A.A., College of the Redwoods
B.S., Franklin University

REISS, Karen

Biology
B.A., University of California, Santa Cruz
M.S., Ph.D., Cornell University

RENNER, Mark

Geology/CIS
A.S., Northwest College
B.S., M.S., University of Wyoming

RHODES, Ruth

English
B.A., Binghamton University
M.A., Case Western Reserve University

RICHARDS, Michael

Automotive Technology
A.A., Tarrant County Junior College
B.A., University of North Texas

RIGGS, Wendy

Biology/Life Science
B.S., Humboldt State University
M.S., University of Maryland

ROMERO, Christian

Computer Information Systems
B.S., University of California, Los Angeles
M.S., Regis University

RULOFSON, Franz

Agriculture
A.A., Shasta College
B.S., California Polytechnic State University,
San Luis Obispo
M.S., University of Nevada

SARTORI, Anthony

Chemistry
B.S., Humboldt State University
M.S., University of Washington

SAYLES, Lisa

Communication Studies
B.S., M.S., Portland State University
M.F.A., The Art Institute of Boston

SCHOENFIELD, Katherine

Nursing
B.A., San Diego State University
B.S.N., Humboldt State University
M.S.N., Sonoma State University
Ph.D., Washington State University

SHAW, Justine M.

Anthropology
B.A., University of Arizona
M.A., Ph.D., Southern Methodist University

SNOW-FLAMER, Keith R.

President/Superintendent
B.A., M.P.A., Eastern Washington University
Ph.D., Gonzaga University

SOKOLOW, Gary A.

Administration of Justice
B.B.A., Florida Atlantic University
M.A., J.D., University of South Dakota

STEWART, Angela

Counselor
A.A., College of the Redwoods
B.A., Humboldt State University
M.S.W., Humboldt State University

STULL, Alison

Director, Nursing & Health Occupations
A.A., Dickinson State College
B.S.N., Dickinson State University
M.S., University of North Dakota
Ph.D., University of Nebraska, Lincoln

SULLIVAN, Shannon

Art
B.F.A., University of Wisconsin, Eau Claire
M.F.A., University of North Texas

URBAN, Sally

Nursing
B.S.N. Humboldt State University
M.S.N. Sonoma State University

VAUGHN, SHemya

Counselor
B.S., Southern Illinois University Edwardsville
M.A., Maryville University St. Louis
Ph.D., Michigan State University

WALKER, Danny

Welding
B.A., Humboldt State University

WALL, Erin

Dean, Arts & Humanities
B.S., Western Oregon University
M.S., Oregon State University

WHITE, Maggie

Health/Physical Education
B.S., M.S., Humboldt State University

WINTER, L. Mark

Psychology
B.A., University of California, Santa Barbara
M.A., California State University, Chico
Ph.D., University of Utah

CAMPUS POLICIES AND REGULATIONS

Campus Regulations

- the speed limit on campus is 15 m.p.h.;
- smoking is prohibited in all buildings at College of the Redwoods; and
- the College is not prepared to deliver telephone messages except in cases of medical emergency.

Smoking – BP/AP 3570

In the interests of public health, the Redwoods Community College District is a smoke-free district. Smoking, including the use of electronic smoking devices, and the use of smokeless tobacco products are prohibited on all property and in all indoor and outdoor spaces owned, leased, licensed, or otherwise controlled by the District. Use of any form of tobacco or nontobacco product is prohibited. Smoking is prohibited in all vehicles owned or leased by this district and at all college-sponsored activities or athletic events. It is likewise prohibited on or in any space, building, or classroom leased or rented by the college.

This policy and these procedures apply to employees, students, visitors, and other persons who enter any Redwoods Community College District facility.

The District shall make available to employees and students a current referral list of treatment centers for smokers and other information that may assist individuals who wish to stop using tobacco products. Such information shall be readily available throughout the District.

Signs prohibiting smoking shall be displayed prominently at all District campuses and sites. The smoke-free/tobacco free policy will be communicated by the District through such means as the web site, student and employee orientations, posters, and the print version of the Schedule of Classes.

Enforcement Steps: Classified employees, faculty, and administrators who violate this policy shall be subject to discipline according to collective bargaining agreements, Education Codes, Board Policy and California Penal Code.

Our primary goal is to achieve voluntary compliance with the tobacco-free policy by educating the college community about this policy. We also will provide smoking cessation assistance to faculty, staff, and students who wish to stop smoking. All members of the college community are responsible for respectfully communicating the policy to faculty, staff, students, and visitors. Faculty, staff, students, and visitors who observe individuals using tobacco on college property are encouraged and empowered to respectfully explain that its use is prohibited or to address violation of the policy through the Public Safety Department or the Human Resources Department.

All students and visitors found to be in noncompliance with this policy shall be deemed to have disrupted the orderly operation of the College and be subject to the following:

- A verbal warning that clearly states the policy.
- Administrative action including but not limited to a verbal warning, an explanation of the policy, a health education referral, and/or withdrawal of consent to remain on the District campuses and sites.
- Revocation of facility use for noncompliant

groups.

If full compliance has not been achieved by February, 2017, the District is authorized to impose fines upon violators pursuant to California Government Code Section 7597.1.

Student Parking - BP/AP 6750

(also see p. 11, *Parking Fees – Eureka Campus*)

All parking on the College of the Redwoods campuses is at the discretion of the vehicle operator. College of the Redwoods assumes no liability for loss or damage incurred by any vehicle or its contents while on college property. Additionally, all parking on the Eureka campus is by permit only.

Purchase of a parking permit does not guarantee that a parking space will be available in the area desired. A student parking permit authorizes the purchaser to park in any general parking area on campus.

Parking is permitted in special purpose parking as indicated:

Lots/spaces identified with markings of:

- RED- No Parking
- BLUE- Disabled
- YELLOW- Loading Zone
- GREEN-Staff Parking
- WHITE-Short-Term Medical Disability

Any other areas as indicated.

Special purpose parking permits are available through Public Safety to permit loading and unloading or for commercial service vehicles providing service to computers, copiers, other equipment or construction on campus. Visitors permits are also available at Public Safety.

Permits – Eureka Campus

(also see Page 11, *Parking Fees*)

Vehicles without permits will be cited. Permits must be displayed on the lower driver's or passenger's side windshield facing out. Students may place as many

vehicles as they wish on their parking permit, but a permit displayed in a vehicle which has not been registered with Public Safety may result in a citation. This helps to reduce the likelihood of parking permit theft.

Citations

Five or more unpaid citations make a vehicle eligible for towing or immobilization in accordance with California state law. It is against department policy for citations to be voided by a student worker once issued. Only the Director of Public Safety may void a citation when the citation is properly appealed.

Motorist Assistance Program

As a courtesy, the Public Safety vehicles are equipped to assist motorists who have locked themselves out of their vehicle, are in need of a jump start or have run out of gas. Public Safety personnel will supervise the changing of a flat tire. Each situation and vehicle differs, and the responding officer may be forced to recommend outside commercial assistance for some vehicles or situations.

Skateboards/Wheeled Toys BP/AP 6750

Board of Trustees BP/AP 6750 prohibits use of skateboards and/or other wheeled toys on campus. First time offenders will be warned. Subsequent offenses will be referred to the Vice President, Instruction & Student Development for disciplinary action.

Domestic Animals on Campus

Domestic animals or livestock (including dogs and cats) are not allowed on campus, that includes not being in your vehicle. Exceptions are animals used in an instruction program of the college or animals certified for service to assist the disabled and under control of the owner. Lost and stray animals and animals left unattended in vehicles will be referred to the appropriate Animal Control agency for removal from the campus grounds.



STUDENT CONDUCT CODE AND DISCIPLINARY PROCEDURE

1.0. Purpose of the Code

The purpose of this code is to recognize student's rights within the institution to freedom of speech, inquiry and assembly; to the peaceful pursuit of education; and to the reasonable use of services and facilities of the College. Consistent with the College of the Redwoods' mission is an expectation that students will govern themselves in a manner that demonstrates appropriate behavior with emphasis on self-respect and respect for others. It is the practice of all employees and representatives of the College to respect the properly exercised rights of its students.

The College has adopted a Student Conduct Code and Disciplinary Procedure in order to maintain a learning environment of respect, civility, safety, and integrity for all members of the College community. In addition to the code, students must also recognize and comply with the standards of classroom behavior as stated in their individual course syllabi. Acts of academic dishonesty, disruptive student behavior in the classroom, and appeals to sanctions imposed in each case, are under the jurisdiction of the faculty member and the academic department administrator, and may be referred to the CSSO as student conduct violations. Threats of violence are considered a serious infringement upon the learning environment and will be acted upon accordingly. All students, including students with disabilities, have the responsibility to meet the Student Conduct Code and Disciplinary Procedure by adapting behavior to the educational environment. If disruptive behaviors persistently occur or student conduct code and disciplinary procedure is violated, the issue is not be defined as a health issue. It will be defined as a disciplinary issue, and a referral to the college disciplinarian will be made.

2.0. Student Conduct Policies

Procedural fairness and due process are basic to the proper enforcement of all College regulations. Accordingly, no disciplinary action shall be imposed against students or student organizations until they have been notified in writing of the charges against them and their rights under this Code, and given the opportunity to be heard, with the exception that a hold status (may, shall, or will) be placed on student records until the specific complaints have been resolved, and except in cases where interim suspension is warranted for the health and safety of the College community.

In general, the District President/Superintendent delegates authority for implementation of this administrative procedure to the Chief Student Services Officer (CSSO). The "CSSO" designation may be assigned by the President/Superintendent to any College administrator. The CSSO may designate other College officials to conduct investigations and student disciplinary hearings, if appropriate.

The CSSO shall be responsible for maintaining complete records pertaining to all activities relating to the implementation of the Student Conduct Code. Those records shall include a summary of the business of the Conduct Review Committee and report of the disposition of each disciplinary case handled by any person or group authorized to impose disciplinary sanctions or other recommendations in the name of the College.

3.0. Student Rights

Any student facing possible disciplinary action is

entitled to the following procedural rights:

- 3.1. The right to be notified in writing of the charges against him/her;
- 3.2. The right to know the nature of the evidence against him/her (unless release of the evidence would endanger the health or safety of victim(s) or witness(es));
- 3.3. The right to present information and witnesses relevant to his/her defense;
- 3.4. The right to freedom from compulsory self-incrimination; and
- 3.5. The right to appear at a hearing before the Conduct Review Committee with an advisor.

4.0. Proscribed Conduct of the College

Sanctions may be imposed for prohibited conduct which occurs on College premises, at off-campus instructional sites (e.g., experiential coursework, internships, or lab), at College-sponsored extracurricular activities or events when a student serves as a representative of the College, or in the course of using College technology or property. Sanctions may also be imposed for conduct that materially and substantially interferes with the College's operation or education programs or the safety and welfare of the College community. Examples of prohibited conduct are described in Section 8.0: Code of Conduct Violations and Sanctions. To the extent permitted by California law, the College may respond to alleged sexual assault or sexual exploitation that is not related to College activity or College attendance.

5.0. Jurisdiction and Privacy

Unless state or federal law requires or permits disclosure or unless the student and the College determine otherwise, proceedings under this regulation shall be confidential.

Records created by public safety, which were created by that law enforcement unit for purposes of law enforcement, are not considered "student records" under the Family Educational Rights and Privacy Act (FERPA) and may be released to third parties as necessary without violating FERPA.

6.0. Student Code of Conduct Procedures

Any member of the College community may file a complaint against any student for alleged misconduct. Complaints must be presented in writing to the CSSO or his/her designee and should be submitted as soon as possible after the event takes place, preferably within fifteen days.

For purposes of these procedures, the term "day" refers to any day during which the District is open for business. Should the final day of a required process fall on a Saturday or Sunday, the following Monday shall be considered the final day. A final day falling on a College holiday shall be considered the first weekday following the holiday.

Although specific timeframes are identified in these processes, any of the timeframes may be extended by the District for good cause upon written notice to the accused student, providing such notice includes the reason(s) for the extension.

A student against whom a complaint has been filed and/or disciplinary charges are pending will have a hold

status placed on his/her records and will not be permitted to withdraw from the College with a clear education record (e.g., a record without notation of disciplinary charges and sanctions) until such charges have been resolved.

6.1. Investigation and Notice to Student

Allegations or complaints of student misconduct that are brought to the attention of the CSSO shall first be analyzed to determine whether the alleged conduct, if true, would constitute a violation of District policies. Upon a determination that alleged misconduct, if true, would constitute a violation of District policies, the CSSO, or his/her designee, shall promptly and thoroughly investigate the matter.

An investigative process should, to the extent possible, be concluded within twenty (20) days of the initiation of the investigation. An investigative report shall be prepared that usually includes the following:

- 6.1.1. A description of the circumstances giving rise to the complaint.
- 6.1.2. A summary of the testimony provided by each witness.
- 6.1.3. An analysis of relevant data.
- 6.1.4. A finding of whether there is reasonable cause to believe that misconduct occurred.
- 6.1.5. Any other information considered appropriate by the District.

The contents of the investigative report may be adjusted to take into account admissions made by an accused student that eliminate the need for witness testimony or other factors that might affect the scope of an investigation.

6.2. Imposing Sanctions

If the student does admit misconduct, and if the CSSO or designee concludes that there is sufficient information to sustain a finding of misconduct that violates specific standards of conduct, the CSSO or designee may impose or defer one or more of the sanctions listed under Code of Conduct Violations and Sanctions. The CSSO or designee may impose a sanction other than suspension or expulsion if the CSSO or designee concludes by a preponderance of the evidence that the student violated one or more specific standards of conduct, even if the student does not admit misconduct. Recommended sanctions involving separation from the College (i.e., Suspension or Expulsion) may be imposed or recommended by the CSSO or designee to the Student Conduct Review Committee where the Committee will consider whether suspension and/or expulsion is an appropriate sanction for the admitted misconduct in violation of the standards of conduct. The Committee is not required to make additional factual findings where there is clear evidence that a student has admitted misconduct.

When the Committee is not readily available, or when convening the Committee is impractical due to the seriousness of the admitted misconduct, the CSSO may suspend the student and/or recommend expulsion, and notify the

President/Superintendent of the need for an automatic appeal on the sole basis of whether or not the proposed discipline is substantially unreasonable in light of the admitted misconduct. The student may also submit a written appeal to the President/

Superintendent but is not required to do so in order to secure an automatic appeal under this section. Any recommendation of expulsion requires Board of Trustee review.

6.3. Referral to the Student Conduct Review Committee

The CSSO or designee will refer the case to the Student Conduct Committee for a hearing when the CSSO or designee recommends suspension or expulsion, and:

- 6.3.1** The student does not admit responsibility;
- 6.3.2** The CSSO or designee concludes that an Agreement of Resolution
(see section 6.5) is not appropriate;
- 6.3.3** There is a finding of reasonable cause to believe there has been a violation of the Student Code of Conduct.

6.4. Insufficient Evidence

6.4.1. At any time before the Student Conduct Hearing occurs, if the CSSO or designee receives new information that establishes a clear lack of truth of prior information submitted to the CSSO or designee such that it is determined that the prior evidence must be disregarded and if in disregarding that prior information the CSSO or designee concludes that there is insufficient information to sustain a finding of responsibility, then

the CSSO or designee will withdraw the case from the Student Conduct Committee. This disposition is binding and terminates all Student Conduct Committee proceedings.

6.4.2. If the CSSO or designee concludes that there is insufficient information to find the student responsible, the case will not be referred to the Student Conduct Committee for a hearing.

6.5. Agreement of Resolution (aka Behavior Contract)

When the CSSO or designee and the student agree that the above dispositions are not appropriate, an Agreement of Resolution may be used to conclude the matter. This Resolution, while not considered to be a finding of responsibility, is binding. If the student fails to abide by the terms of the Agreement of Resolution, that failure may be regarded as actionable misconduct and may subject the student to disciplinary action by the College. An Agreement of Resolution may include such terms as:

- 6.5.1.** Agreement by the student to refrain from specific behaviors, and/or to refrain from contacting others involved in the case;
- 6.5.2.** Agreement by the student to participate in specified educational programs and/or reconciliation processes such as mediation; and/or
- 6.5.3.** Agreement by the student to participate in specified community service activities.

The Agreement of Resolution is not a formal disciplinary action but will be retained in the case file in the Office of the CSSO for a maximum of seven (7) years from the date of the Agreement. During that time, should the CSSO or designee have a reasonable basis to believe that the student has engaged in misconduct related in nature to the conduct which occasioned the Agreement, both cases may be the subject of College disciplinary action.

6.6. Formal Hearing

- 6.6.1.** Conduct Review Committee

The accused student may request, or the CSSO may require, that the charges be resolved at a formal hearing provided by the Conduct Review Committee. The CSSO shall consider the preference of the accused student, the nature of the charges, and the availability of the committee members when assigning the case for a hearing. The Conduct Review Committee will hear cases and make decisions on appropriate sanctions. The Committee will be established at the beginning of each academic year and will be composed of:

- 6.6.1.1.** One (1) member of the administration (and an alternate) appointed by the President/Superintendent.
- 6.6.1.2.** Two (2) members (and an alternate) of the classified staff appointed by the President/Superintendent from a list of staff members submitted by the classified bargaining unit. Vacancies of classified staff members shall be filled by action of the classified bargaining unit.
- 6.6.1.3.** Two (2) members (and an alternate) of the faculty appointed by the President/Superintendent from a list of faculty members submitted by the Academic Senate. Each faculty member must be a full-time or part-time faculty member at the College. Vacancies of faculty members shall be filled by action of the Senate.
- 6.6.1.4.** Two (2) members (and an alternate) of the student body appointed by the President/Superintendent from a list of students submitted by the President of the ASCR Senate. Each student must be enrolled not less than half-time (6 units minimum) and have a cumulative GPA of at least 2.0. Vacancies of student members shall be filled by recommendation of the ASCR Senate.
- 6.6.1.5.** The President/Superintendent will appoint the chair of the Conduct Review Committee.

Conduct Review Committee members and alternates serve on the committee for the academic year. Alternate members may be reappointed to serve as full members for the next academic year.

The CSSO or designee shall serve as non-voting Secretary and advisor to the Conduct Review Committee.

No Conduct Review Committee member may sit on the Committee during a hearing if that member is a complainant, witness, has a direct or personal interest in the outcome of the hearing, or has previously acted in an advisory capacity to the accused student.

The Chair of the Conduct Review Committee may establish a hearing format consistent with this Code. In cases involving more than one accused student, the Chair of the Conduct Review Committee and the CSSO or designee will determine if hearings or conferences concerning each student will be conducted jointly or separately. The decision of the Committee Chair shall be final on all matters relating to the conduct of the hearing unless there is a vote by other members of the panel to the contrary.

6.6.2. Hearing Officer. In appropriate circumstances, the CSSO may determine that a disciplinary hearing should be conducted by a neutral hearing officer rather than a Conduct Review Committee. Such circumstances include, but are not limited to hearings that are anticipated to require more than one day of hearing where Committee member educational or employment obligations may be impacted, when a Committee cannot be convened expeditiously to address

a critical matter, or where technical or legal complexities suggest the need for specialized expertise. To the extent practicable, where a hearing officer is substituted for a Conduct Review Committee, the rules related to a Committee shall apply to a hearing before a hearing officer.

6.6.3. Notice of Hearing. Written notice of the hearing shall be provided to the accused and shall include the following:

- 6.6.3.1.** The specific alleged misconduct (accusation).
- 6.6.3.2.** A summary of the investigation and/or a short written statement of the facts supporting an accusation of misconduct.
- 6.6.3.3.** The right of the parties to attend the hearing or to respond
in writing regarding the party's position concerning the matter.
- 6.6.3.4.** The nature of the discipline that is being considered.

6.6.4. Notices described in this procedure are sent to the most recent official student address and/or email address on file with the District. The notice will inform the student of:

- 6.6.4.1.** The charges alleged to have been violated and sufficient details of the complaint for the basis of the allegation to be understood;
- 6.6.4.2.** The time, location and place of the hearing;
- 6.6.4.3.** A statement of the respondent student's rights as stated in the Code or a copy of this Standard of Student Conduct; and
- 6.6.4.4.** The name of the person(s), group, or College office filing the charges.

Nothing prohibits the District from amending the notice as deemed appropriate. The CSSO may request the production of relevant evidence that was not part of the investigative process for consideration in the hearing process upon notice to the accused student.

7.0 Conduct of Hearing

The CSSO or designee shall determine how the hearing will be conducted, taking into account the safety of parties and witnesses. The CSSO or designee may call and question witnesses he/she believes have relevant information.

Each party may recommend witnesses to be called. To avoid unnecessarily duplicative or irrelevant testimony, the CSSO or designee may require a party to indicate the nature of the proposed testimony as a condition to calling witnesses. Neither the CSSO or designee nor the Committee can compel the attendance of witnesses recommended by the parties.

The CSSO or designee shall determine on a case-by-case basis how the questioning of parties and witnesses shall be conducted, given the nature of the allegations and the safety of parties and witnesses. If the CSSO or designee does not permit direct questioning by the parties, he/she may consider permitting the parties to submit questions for the CSSO to ask parties and witnesses.

Formal rules of evidence shall not apply. Any relevant, non-duplicative evidence may be admitted.

Determination of violations shall be made based on the preponderance of evidence.

Quorum for a hearing requires that five (5) of the seven Student Conduct Review Committee members are present for the hearing.

If the case is to be heard at the Mendocino or Del Norte site, a quorum will be three (3) members of the Committee.

Hearings shall be closed and confidential unless the student requests that it be open to the public. Any such request must be made no less than five (5) days prior to the date of the hearing. In a closed hearing, witnesses shall not be present at the hearing when not testifying, unless all parties and the Chair of the committee agree to the contrary.

In all cases, the evidence in support of the charges will be presented and considered whether or not the accused party is in attendance. If the accused student has submitted written information in his/her defense but does not attend the hearing, that information shall be considered by the Committee as well.

The accused student may be accompanied by an advisor if so desired, conditional on 24-hour notice to and approval of the CSSO or designee. The advisor may attend the hearing with the student to counsel him/her and suggest questions. The accused student and advisor may be present during the entire time of the hearing, except during the deliberations of the Conduct Review Committee or where the safety of witnesses is a valid concern. In no event may the advisor participate directly by speaking or questioning witnesses.

The student shall not be represented by an attorney unless, in the judgment of the CSSO or designee, complex legal issues are involved, or unless criminal charges are pending based on the alleged conduct for which disciplinary action is pending. If the student wishes to be represented by an attorney, a request must be presented with the name and office address of the attorney not less than five days prior to the date of the hearing. If the student is permitted to be represented by an attorney, the College presenter may also have legal assistance. The Conduct Review Committee may also request legal assistance; any legal advisor provided to the committee may sit with it in an advisory capacity to provide legal counsel but shall not be a member of the panel nor vote with it.

8.0 Notice of Decision.

Within fifteen (15) days following the hearing, the Committee Chair or his/her designee on the Committee shall prepare and send the written decision of the Committee to the CSSO or designee. The Notice of Decision shall include factual findings regarding the accusation and determinations as to whether any specific section(s) of the Standards of Student Conduct were violated. The Notice of Decision shall also include a specific decision regarding the disciplinary action to be imposed, if any, unless expulsion is recommended. The Notice of Decision shall be based only on the record of the hearing, and not on matters outside of that record. The record includes the investigative report, any written notices or student statements, and oral and written evidence produced for, or at, the hearing. If expulsion is recommended, the Notice of Decision shall verify that expulsions require Board of Trustee action.

The CSSO shall transmit the Notice of Decision to the accused student. If the Decision calls for disciplinary action, the CSSO shall also notify the accused student of his/her appeal options.

If the student is found not to be in violation of the Student Code of Conduct, and if coursework has been missed as a direct result of action taken against the student, appropriate action will be taken in order to assist the student to complete the course, reimburse the cost of tuition, or reach other alternatives.

Appeals of Formal Hearing Decisions

8.1. Appeal requests are available to the accused student only on the following bases:

8.1.1. A claim that the initial hearing included a material procedural error. The appeal request must identify the specific procedural error(s) and how that claimed error disadvantaged the appealing party.

8.1.2. Relevant evidence that was previously unavailable has been discovered, and that evidence could significantly impact the outcome of the case. The appeal request must identify the specific evidence, how the evidence is relevant, why the evidence was previously unavailable, and how the newly discovered relevant evidence could impact the outcome of the case.

8.1.3. The proposed discipline is substantially unreasonable in light of the findings. The appeal request must indicate the claimed unreasonableness of the proposed discipline and indicate what discipline the student believes would be appropriate.

Written appeals must be submitted in writing to the President/Superintendent within five (5) days of the delivery of the CSSO's Notice of Decision to the student. If no appeal is received within five (5) days, the decision of the CSSO, including the proposed discipline will take immediate effect.

The President/Superintendent will not hold a hearing. Rather, resolution of the appeal shall be based upon the written findings and decision from the Conduct Review Committee, the record of the hearing, as well as any written documentation submitted by either party during the hearing. The CSSO or designee will provide all relevant documentation to the President/Superintendent.

The President/Superintendent shall render a decision within ten (10) days after receipt of the appeal and shall inform the student immediately by mail and/or email.

In all cases but expulsion, the President/Superintendent's decision regarding the appeal will be final. Any recommendation of expulsion shall be presented to the Board of Trustees for action.

If the President/Superintendent upholds an expulsion decision that the student wishes to contest further, the student may appeal in writing to the Board of Trustees. In this instance, the following procedure will be followed:

- The Board of Trustees shall consider any appeal at the next regularly scheduled meeting of the Board after receipt of the recommended decision. The Board may also hold a special meeting to consider the discipline of a student, provided the notice of a special meeting for this purpose is posted at least five days prior to the special meeting.
- The Board of Trustees shall consider an expulsion recommendation in closed session, unless the student has requested that the matter be considered in a public meeting in accordance with these procedures.
- The student shall be notified in writing, at least three (3) days prior to the meeting, of the date, time, and place of the Board's meeting.

- The student may, within forty-eight hours after receipt of the notice, request that the hearing be held as a public meeting.

Even if a student has requested that the Board of Trustees consider an expulsion recommendation in a public meeting, the Board of Trustees will hold any discussion that might be in conflict with the right to privacy of any student, other than the student requesting the public meeting, in closed session.

The Board of Trustees may accept, modify or reject the findings, decisions and recommendations of the President/Superintendent and/or the hearing panel. If the Board of Trustees modifies or rejects the findings, decision, or recommendations, the Board shall review the record of the hearing and any timely appeal, and shall prepare a new written decision which contains specific factual findings and conclusions. The decision of the Board of Trustees shall be final.

The final action of the Board of Trustees on the expulsion shall be taken at a public meeting, and the result of the action shall be a public record of the College.

9.0 Student Code of Conduct

Students are expected to demonstrate qualities of morality, integrity, honesty, civility, honor, and respect. Students are required to engage in responsible social conduct that reflects credit upon the CR Community and to model good citizenship in any community.

9.1 Violations

Disciplinary action may be initiated by the College and sanctions imposed against any student or student organization found responsible of committing, attempting to commit, or intentionally assisting in the commission of any prohibited forms of conduct:

- 9.1.1** Academic dishonesty, which includes cheating, plagiarism, and hampering or discrediting the academic work of others,
- 9.1.2** Unauthorized distribution of copyrighted material, including unauthorized peer-to-peer file sharing, may subject the students to civil and criminal liabilities.
- 9.1.3** Continued disruptive behavior, or obstructing the work and operation of the College, including willful disruption of the orderly operation of the campus.
- 9.1.4** Defamation: An individual shall not use defamatory words or phrases or distribute defamatory materials. Defamatory words or materials are those that: (1) are false and expose any person or the college to hatred, contempt, ridicule, disgust or an equivalent reaction; or (2) are false and have a tendency to impugn a person's occupation, business, or office.
- 9.1.5** Violation of the College's computer use policy or any conduct that constitutes a computer-related crime pursuant to Penal Code, section 502. Use of electronic technology includes, but is not limited to: internet, email, telephone, fax machines, or instant messaging to intimidate another member of the College community.
- 9.1.6** Theft (actual or attempted) or destruction of College property or property belonging to a member of the College community or other abuse of College computer facilities, programs, technology and equipment.
- 9.1.7** Coercion, which is defined as attempting to compel, control, or manipulate another

through the threat of force, intimidation, exploitation of fear or anxiety, including explicit and implied physical and verbal threats against another person or bullying as defined in Board Policy 3431 and Administrative Procedure 3431.

9.1.8 Disruption or obstruction of teaching, research, administration, disciplinary proceedings, other College activities, including its public service functions on or off campus, or of other authorized non-College activities when the conduct occurs on College premises.

9.1.9 Intentionally obstructing or denying access to facilities or services to individuals entitled to use such services or facilities.

9.1.10 Intentionally interfering with the lawful rights of other persons on campus.

9.1.11 Violation of the District's nondiscrimination or sexual harassment policies, or engaging in harassing, or retaliatory behavior in violation of District policy or sexual assault or misconduct or physical abuse, including but not limited to rape, domestic violence, dating violence, sexual assault, stalking or sexual exploitation. Sexual misconduct, including discrimination based on gender, sexual harassment, dating violence, domestic violence, sexual assault, stalking, sexual exploitation, and hate crimes based on gender are subject to Administrative Procedure 5502.

9.1.12 Violation of local, county, state, or federal law, whether it be on or off campus, only when a definite College interest is involved and where the student misconduct distinctly and adversely affects the College's pursuit of its educational mission.

9.1.13 Wearing, transporting, storing, or possessing firearms or other weapons on College property (including College-owned vehicles and parking lots), at College-sponsored or College-related functions or events, and during times when acting as a representative of the College whether on or off College premises "Weapons" prohibited by this procedure include firearms, knives, explosives, clubs and other items used as a threat to do bodily harm and facsimiles of such weapons. Prohibitions described in this provision do not apply to any certified law enforcement personnel engaged in official duties. Activities requiring use of the prohibited items may be conducted on approval of the activity by the President/Superintendent or his/her designee.

9.1.14 Intentional obstruction of the freedom of movement of pedestrian or vehicular traffic on College premises.

9.1.15 Participation in a campus demonstration which disrupts the normal operations of the College and infringes on the rights of other members of the College community.

9.1.16 Leading or inciting others to disrupt scheduled and/or normal activities within any campus building or area.

9.1.17 Detention or physical abuse, or assault or battery, extortion, or intimidation of any person or conduct which is intended to threaten imminent bodily harm or endanger the health or safety of any person on any property owned or controlled by the College or at any College sponsored or supervised

functions.

9.1.18 Failure to comply with reasonable directions of College officials or public safety officers acting in performance of their duties on campus or affecting conduct on campus.

9.1.19 Unauthorized possession, duplication or use of keys to any College premises, supplies or equipment, including computing, networking, or information resources, or unauthorized entry to or use of College premises.

9.1.20 Being an accessory to any person on the College campus who is or who is not a member of the College community who violates this code.

9.1.21 Violation of College Board policies, published college policies, rules, procedures, or regulations.

9.1.22 Conduct that is disorderly, lewd, or indecent; breach of peace; or aiding, abetting, or procuring another person to breach the peace on CR premises or at functions sponsored by, or participated in by, CR or members of the College community.

9.1.23 Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in California Health and Safety Code Section 11053 et seq., 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 or use, sale or distribution of any poison defined in Section 4240 of the Business and Professions Code.

9.1.24 Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the College.

9.1.25 Willful misconduct that 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 College or on campus.

9.1.26 Dishonesty; forgery; alteration or misuse of College documents, records or identification; or knowingly furnishing false information to the College.

9.1.27 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 College regulations, or the substantial disruption of the orderly operation of the College.

9.1.28 Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.

9.1.29 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.

9.1.30 The use by a student of any electronic listening or recording device in any classroom without the prior consent of the instructor, except as necessary to provide reasonable

auxiliary aids and academic adjustments to a student with a disability.

9.1.31 Disengaging smoke or fire detection equipment including tampering with fire or safety equipment, including pull stations, fire extinguishers, fire hoses, smoke detectors, alarm horns and bells or any other fire or safety items, or failure to vacate facilities during fire drills or fire or other emergencies when directed to do so by District or public safety representatives.

9.1.32 Initiation of or participation in hate violence.

9.1.33 Solicitation or acceptance of money or other thing of value as an inducement, encouragement, or reward for intercollegiate participation in violation of Education Code, section 67361 or false declarations regarding eligibility for participation in intercollegiate athletics under Education Code, section 67362;

9.1.34 The offering of any inducement or thing of value to influence the award of any grade or to alter any official College record.

9.2 Sanctions

Any time a sanction is specifically provided for herein, the employee or officer authorized to impose such sanctions may impose a lesser sanction. For the purposes of this rule, expulsion is the most severe sanction, followed by suspension, probation, and written and oral warning. A student may be given an interim suspension and, subsequently, may be subjected to further disciplinary action by the College, up to and including expulsion, if such further sanction is found to be appropriate in light of the conduct of the student. In all such cases, the fact of the earlier sanction shall be taken into consideration in determining the extent of any further sanctions. Disciplinary actions will be enforced by the College.

Consequently, each campus, education center, or instructional site within the District will honor sanctions imposed by the College.

9.2.1 Individual Sanctions

9.2.1.1 Warning - a written or oral notice to the student that continuation or repetition of certain conduct may be cause for disciplinary action under this regulation.

9.2.1.2 Probation - a reprimand for violation of specified regulations. Probation is for a designated period of time and includes the probability of more severe disciplinary sanctions if the student is found to be violating any institutional regulation(s). If a student violates any condition of probation or again is charged with a violation of the standards of student conduct during the probationary period, such action shall be grounds for revocation of the student's probationary status and for further disciplinary action to be taken in accordance with this regulation.

9.2.1.3 Loss of Privilege - a denial of specified privileges for a designated period of time. This may include, but is not limited to, access to facilities, services or offices or participation in clubs, organizations, activities, or College-sponsored events.

9.2.1.4 Restitution - a requirement of any student who has caused non-accidental damage to College property to pay the College the cost of replacing or repairing the property in question. The College may withhold, after appropriate written notice to the student, grades,

transcripts, certificates, diplomas, registration privileges, or any combination thereof from any student who fails to repay or refuses to repay any valid debt owed to the College (Title 5, section 59410)

9.2.1.5 Community Service - the performance of community service as a sanction for misconduct. Determination of the type of work to be performed, the number of hours of service, and the responsibility for supervising the service will be made in consultation with the CSSO.

9.2.1.6 Limited Access - an administrative restriction to selected parts/locations of campus buildings.

9.2.1.7 College suspension - the separation of the student with consequent loss of tuition and fees from any or all classes and activities at the College for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified (Title 5, section 76031).

9.2.1.8 College expulsion - the permanent separation with consequent loss of tuition and fees of the student from the College.

9.2.1.9 Counseling or Education Seminars - the requirement to participate in counseling seminars or educational workshops in lieu of, or in addition to, the imposition of sanctions.

9.2.1.10 Revocation of Admission or Degree - the admission to the College may be revoked based on fraud, misrepresentation or other forms of misconduct related to the admissions process. The granting of a degree by the College may be revoked based on fraud, misrepresentation or other forms of misconduct related to obtaining the degree.

9.2.1.11 Deactivation - the loss of privileges, including College recognition, for a specified period of time for any student club, group, or organization.

9.2.1.12 Loss of housing on District property or housing affiliated with the District.

9.2.1.13 Loss of institutional financial aid or scholarships and/or loss of state financial aid pursuant to Education Code, section 69810 et seq.

9.3 Disruptive Classroom Behavior

9.3.1 Instructors

Course instructors at College of the Redwoods Community College District have the professional responsibility and authority to maintain order in instructional settings, which include but are not limited to classrooms, libraries, group meetings, tutorials, lab sessions, office hours, and off-campus venues. To assure the best presentation of the course material, a course instructor shall determine the manner and times during which students may ask questions, request clarification or express opinions or points of view in the instructional setting.

9.3.2 Students

Student behavior or speech that disrupts the instructional setting not be tolerated. Disruptive conduct may include, but is not limited to; unwarranted interruptions; failure to adhere to instructor's directions; vulgar or obscene language; slurs or other forms of intimidation; physically or verbally abusive behavior.

9.3.3 Records

Instructors are advised to keep careful written

records regarding any incident of disruptive behavior, including dates, times, names of those present, and details of the incident. Instructors should inform their department chair or supervising faculty and the CSSO Office of any such incidents and provide written documentation, if requested. The parties involved, in conjunction with the department chair or supervising faculty and appropriate administrator, may strive for acceptable solutions or mediate appropriate intervention strategies.

9.3.4 Removal from Class

Any faculty member may, for good cause, order a student removed from his or her class for the day of the removal and the next class meeting (Education Code Section 76032).

The faculty member shall immediately report the removal to the appropriate immediate administrator and the CSSO or designee. The CSSO or designee shall arrange for a conference between the student and the faculty member regarding the removal. If the faculty member or the student requests, the CSSO or designee shall attend the conference.

The student shall not be returned to the class during the period of the removal without the concurrence of the faculty member. Nothing herein will prevent the CSSO or designee from recommending further disciplinary procedures in accordance with these procedures based on the facts which led to the removal.

9.3.5 Students Who May Present a Danger to Themselves or Others

The College seeks to promote a safe environment where students and employees may participate in the educational process without compromising their health, safety or welfare. The Code of Conduct prohibits a student from engaging in violent conduct and threatening behaviors toward any member of the College community, including a student's threat to harm him-or-herself. In cases of this type, the special procedures set out in section 8.3.6 may be used to attempt to determine if the student (1) presents a danger to himself/herself or others, and/or (2) is likely to repeat the misconduct. All threats or threats to do violence must be taken seriously and responded to immediately.

9.3.6 Responding to Student Conduct Involving Threats or Violence

Any College employee, student, or visitor who observes or otherwise becomes aware of violent or threatening student conduct, including a student's threat to injure himself/herself, or any other student conduct that indicates that the student may present a danger to himself/herself or others, should do the following:

In the case of an emergency, immediately contact the College's Security office by calling the emergency number 707- 476-4111. In severe cases, call 911. In these cases, Security will write an incident report to be filed in situations where an incident report is deemed warranted.

In cases that do not involve an immediate emergency, promptly file an incident report with Public Safety or inform the campus or site administrator.

In the event of any threat on a person's life, whether spoken or written, the following procedure will be undertaken even if the person hearing/seeing the threat does not believe it is viable: The police will be immediately called.

The person(s) threatened will be immediately

informed.

Nothing in this process precludes the District from offering care and accommodations to students in crisis or from referring students to other resources for assessment or support.

Parents of minor students will be notified of the person(s) behavior (if FERPA conditions are met) and violation of the college's code of conduct.

The College will continue to follow-up with faculty, staff, law enforcement, parents, etc. and communicate essential information to one another.

9.4 Immediate Suspension and Denial of Access

9.4.1 Immediate Suspension

The President/Superintendent may impose an immediate suspension on a student only where such action is required in order to protect lives or property and to ensure the maintenance of order on the campus or at a campus function. To the extent the circumstances reasonably permit, the District's legal advisor will be consulted on the issue of whether an immediate suspension is appropriate.

Immediate notice of such suspension shall be given to the student either orally or in writing. Such notice shall advise the student of the right to a hearing.

Within 48 hours of ordering an immediate suspension, the

President/Superintendent or designee shall forward written notice to the student of the basis for the action. Such notice shall be addressed to the student's last known address and/or email address and shall advise the student of a right to a hearing and the time and location of such hearing. Unless the student agrees otherwise, such hearing shall be held no later than ten (10) days following suspension.

9.4.2 Withdrawal of Consent to Remain on Campus

The President/Superintendent, or person designated by him or her to maintain order may notify a student that the consent to remain on campus or other facility under the control of the College has been withdrawn whenever there is reasonable cause to believe that such person has willfully disrupted the orderly operation of the campus or facility.

Whenever consent is withdrawn by any authorized officer or employee other than the President/Superintendent, such officer or employee shall, as soon as is reasonably possible, submit a written report to the President/Superintendent, or, in the absence of the President/Superintendent, to a person designated by him or her for the purpose of reviewing the withdrawal of consent to remain on campus. Such report shall contain all of the following:

9.4.2.1 Description of the person from whom consent was withdrawn, including, if available, the person's name, address, and telephone number.

9.4.2.2 A statement of the facts giving rise to the withdrawal. If the President/Superintendent or the person designated by him or her for the purpose of reviewing the withdrawal of consent to remain on campus, upon reviewing the report submitted by the person authorized to maintain order, finds that there was reasonable cause to believe that such person has willfully disrupted the orderly operation of the campus or facility, he or she may enter written confirmation upon the report of the action taken by the officer or

employee. If the

President/Superintendent or person designated by the President/Superintendent in his or her absence to review the withdrawal of consent to remain on campus does not confirm the action of the officer or employee authorized to withdraw consent within 24 hours after the time the consent was withdrawn, the action of the officer or employee shall be deemed void and of no force or effect.

The notice given to the student may be given orally and/or in writing and shall advise the student of the right to a hearing as set out herein.

In no case shall summary withdrawal of consent under this Article be withdrawn for longer than fourteen (14) days from the date upon which the consent was initially withdrawn. During the fourteen (14) day period, the student from whom consent to remain on campus was withdrawn may file a written request for a hearing to the Office of the President/Superintendent. Such hearing shall be held within seven (7) days of receipt before a hearing officer selected by the President/Superintendent.

Consent to return to the campus within the maximum 14-day period shall be reinstated by the President/Superintendent whenever he or she has reason to believe that the presence of the student from whom consent was withdrawn will not constitute a substantial and material threat to the orderly operation of the campus or facility.

9.5 Denial of Access

After a hearing, any suspension or expulsion based on conduct that disrupted the orderly operation of a campus or other facility may include denial of access to the campus or facility as a condition of such suspension or expulsion for the period of the suspension or in the case of expulsion for a period not to exceed one year (Penal Code, Section 626.2). A student who willfully and knowingly enters the campus or facility during the period for which access has been denied is guilty of a misdemeanor pursuant to Penal Code, Section 626.2. In the case of a suspension, such entry may be grounds for further disciplinary action.

10.0 Fees, Denial of Aid and Readmission, and Student Statement

10.1 Fees

No fees paid by or for a student for the semester, summer session, or other term in which he or she is suspended or expelled shall be refunded, except as may be required by law. If the student is readmitted before the close of the semester, summer session, or other term in which he or she is suspended, the student will not be charged any additional fees as a result of the suspension.

10.2 Admission or readmission

Admission or enrollment may be denied to any person who has been expelled from another California community college district within the five (5) years preceding his/her application for admission/enrollment or who is undergoing expulsion proceedings at another California community college district for offenses described in Education Code, section 76038 at the time of his/her application to the District for admission/enrollment.

The offenses that may preclude admission or enrollment include murder or attempted murder, assault or battery, sexual assault, kidnapping or attempted

kidnapping, robbery or extortion, stalking, or unlawful conduct related to weapons, all as defined in Education Code, section 76038.

The CSSO or designee shall hold a hearing to determine whether an individual covered by this section poses a continuing danger to the physical safety of the District's students or employees. Notice of the hearing shall be provided to the affected individual no less than 5 days prior to the hearing. The hearing shall comply with basic due process standards, including providing the affected individual with the option to present information in support of his/her ability to participate as a student of the District without presenting a danger to students or employees. The CSSO or designee shall issue and deliver a written decision to the affected individual as to whether the individual poses a continuing danger; and shall deny admission/enrollment, permit admission/enrollment, or permit conditional admission/enrollment.

If admission or enrollment is denied, the affected individual may file a written appeal of the decision to the Board of Trustees within 5 days of delivery of the decision. Appeals are limited to the following:

1. The individual maintains that he/she was not expelled or subject to expulsion by another California community college for the offenses described in
2. Education Code, section 76038, or The individual maintains that he/she did not commit any offense described in Education Code, section 76038, or
3. The individual maintains that notice of the hearing was not provided a minimum of 5 days prior to the conduct of the hearing.

The Board of Trustees shall consider any timely appeal at its next regular meeting following receipt of the appeal or shall hold a special meeting for such purposes. The Board shall issue a decision on the appeal in writing to the individual filing a timely appeal.

10.2.1 Denial of Enrollment for Continuing Threat.

In addition, enrollment may be denied to any District student who has been suspended from the District for conduct involving acts of violence or threats of violence, including any conduct that potentially endangers the health or safety of others, until the District determines that the individual does not present a direct threat to others. A determination that an individual poses a direct threat to others must be based on an individualized assessment of the individual's present ability to safely participate as a District student. This assessment must be based on a reasonable medical judgment that relies on available objective evidence. In determining whether an individual poses a direct threat, the District will consider (1) The duration of the risk; (2) The nature and severity of the potential harm; (3) The likelihood that the potential harm will occur; and (4) The imminence of the potential harm.¹ Any conduct for which admission or readmission may be denied must be related to a College activity or College attendance. Appeals regarding denial of admission or readmission enrollment shall be made to the CSSO or designee.

10.2.2 Denial of Readmission Following Protective Order.

In the event the District secures a protective order against a student that prevents the student from attending classes and maintaining his/her academic status, the District may require the student to apply for reinstatement after the expiration of the protective order and shall consider such appli-

cation in accordance with Education Code, section 76030(b). The CSSO or designee shall conduct a review and take appropriate action on an application for readmission as described in section 76030.

10.3 If a student's record includes information concerning any disciplinary action taken by the College, the student may include in the record a written statement or response concerning the disciplinary action.

References: California Education Code Sections 66017, 66300, 66301, 72122, 76030 et seq; Accreditation Standard II.A.7.b

Approved: February 1980

Revised: May 5, 2015, April 5, 2016

Summary of Civil and Criminal Penalties for Violation of Federal Copyright Laws

Copyright infringement is the act of exercising, without permission or legal authority, one or more of the exclusive rights granted to the copyright owner under section 106 of the Copyright Act (Title 17 of the United States Code). These rights include the right to reproduce or distribute a copyrighted work. In the file-sharing context, downloading or uploading substantial parts of a copyrighted work without authority constitutes an infringement.

Penalties for copyright infringement include civil and criminal penalties. In general, anyone found liable for civil copyright infringement may be ordered to pay either actual damages or "statutory" damages affixed at not less than \$750 and not more than \$30,000 per work infringed. For "willful" infringement, a court may award up to \$150,000 per work infringed. A court can, in its discretion, also assess costs and attorneys' fees. For details, see Title 17, United States Code, Sections 504, 505.

Willful copyright infringement can also result in criminal penalties, including imprisonment of up to five years and fines of up to \$250,000 per offense. For more information, please see the website of the U.S. Copyright Office at www.copyright.gov.

Student Right-to-Know Rates

In compliance with the Student-Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of the Redwoods Community College District and College of the Redwoods to make available its completion and transfer rates to all current and prospective students. Beginning in Fall 2000, a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students were tracked over a three year period. Their completion and transfer rates are listed below. These rates do not represent the success rates of the entire student population at College of the Redwoods, nor do they account for student outcomes occurring after this three-year tracking period. Based upon the cohort defined above, 26.9 percent attained a certificate or degree or became 'transfer prepared' during a three year period, from Fall 2000 to Spring 2003. Students who are 'transfer-prepared' have completed 56 transferable units with a GPA of 2.0 or better.

Based on the cohort defined above, 18.9 percent transferred to another postsecondary institution, (UC, CSU, or another California Community College) prior to attaining a degree, certificate, or becoming 'transfer-prepared' during a five semester period, from Spring 2001 to Spring 2003.

Student Records and Privacy Act

The Family Educational Rights and Privacy Act (FERPA) and Board Policy 5040 (Student Records) afford eligible students certain rights with respect to their education records at College of the Redwoods. (An "eligible student" under FERPA is a student who is 18 years of age or older or who attends a postsecondary institution.) These rights include:

1. The right to inspect and review the student's education records within 15 days after the day College of the Redwoods receives a request for access. A student should submit to the Registrar a written request that identifies the record(s) the student wishes to inspect. The Registrar 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 Registrar, s/he will 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 is inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.
3. A student who wishes to ask the college to amend a record should write the college official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed.
4. If the college decides not to amend the record as requested, the college will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
5. The right to provide written consent before the college discloses personally identifiable information (PII) from the student's education records, except to the extent that FERPA authorizes disclosure without consent.
6. The college discloses education records without a student's prior written consent under the FERPA exception for disclosure to college officials with legitimate educational interests. A college official is a person employed by College of the Redwoods in an administrative, supervisory, academic, research, or support staff position (including security personnel and health center staff); a person serving on the board of trustees; or a student serving on an official committee, such as a disciplinary or grievance committee. A college official also may include a volunteer or contractor outside of College of the Redwoods who performs an institutional service or function for which the college would otherwise use its own employees and who is under the direct control of the college with respect to the use and maintenance of PII from education records, such as an attorney, auditor, or collection agency, or a student volunteering to assist a college official in performing his or her tasks. A college official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for College of the Redwoods.
7. Upon request, the college also discloses education records without consent to officials of another college in which the student seeks or intends to enroll.
8. The right to file a complaint with the U.S. Depart-

ment of Education concerning alleged failures by College of the Redwoods to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office
 U.S. Department of Education
 400 Maryland Avenue, SW
 Washington, D.C. 20202

FERPA permits the disclosure of PII from students' education records, without consent of the student, if the disclosure meets certain conditions found in §99.31 of the FERPA regulations. Except for disclosures to college officials, disclosures related to some judicial orders or lawfully issued subpoenas, disclosures of directory information, and disclosures to the student, §99.32 of FERPA regulations requires to institution to record the disclosure. Eligible students have a right to inspect and review the record of disclosures. A postsecondary institution may disclose PII from the education records without obtaining prior written consent of the student:

- To other college officials, including instructors, employed by College of the Redwoods, whom the school has determined to have legitimate educational interests. This includes contractors, consultants, volunteers, or other parties to whom the school has outsourced institutional services or functions, provided that the conditions listed in §99.31 (a)(1)(i)(B)(1) – (a)(1)(i)(B)(2) are met. (§99.31(a)(1))
- To officials of another college where the student seeks or intends to enroll, or where the student is already enrolled if the disclosure is for purposes related to the student's enrollment or transfer, subject to the requirements of §99.34. (§99.31(a)(2))
- To authorized representatives of the U.S. Comptroller General, the U.S. Attorney General, the U.S. Secretary of Education, or State and local educational authorities, such as a State postsecondary authority that is responsible for supervising the college's State-supported education programs. Disclosures under this provision may be made, subject to the requirements of §99.35, in connection with an audit or evaluation of Federal- or State-supported education programs, or for the enforcement of or compliance with Federal legal requirements that relate to those programs. These entities may make further disclosures of PII to outside entities that are designated by them as their authorized representatives to conduct any audit, evaluation, or enforcement or compliance activity on their behalf. (§99.31 (a)(3) and §99.35))
- In connection with financial aid for which the student has applied or which the student has received, if the information is necessary to determine eligibility for the aid, determine the amount of the aid, determine the conditions of the aid, or enforce the terms and conditions of the aid. (§99.31 (a)(4))
- To organizations conducting studies for, or on behalf of, the college, in order to: (a) develop, validate, or administer predictive tests; (b) administer student aid programs; or (c) improve instruction. (§99.31 (a)(6))
- To accrediting organizations to carry out their accrediting functions. (§99.31 (a)(7))
- To parents of an eligible student if the student is a dependent for IRS tax purposes. (§99.31 (a)(8))
- To comply with a judicial order or lawfully issued subpoena. (§99.31 (1)(9))

- To appropriate officials in connection with a health or safety emergency, subject to §99.36. (§99.31 (a)(10))
- Information the school has designated as "directory information" under §99.37. (§99.31 (a)(11))

Directory Information (DI) at College of the Redwoods includes:

- Student name
- Community of residence
- Date and place of birth
- Major field of study
- Participation in officially recognized activities and sports
- Weight and height of members of athletic teams
- Dates of attendance
- Degrees and awards received
- The most recent public or private school attended by the student
- Any other information authorized in writing by the student

Students are asked on the Application to authorize the release of DI. If the answer is "yes", then DI may be released. If the answer is "no" then DI will not be released unless a provision listed above authorizes the release.

To a victim of an alleged perpetrator of a crime of violence or a non-forcible sex offense, subject to the requirements of §99.39. The disclosure may only include the final results of the disciplinary proceeding with respect to that alleged crime or offense, regardless of the finding. (§99.31 (a)(13))

To the general public, the final results of a disciplinary proceeding, subject to the requirements of §99.39, if the college determines the student is an alleged perpetrator of a crime of violence or non-forcible sex offense and the student has committed a violation of the college's rules or policies with respect to the allegation made against him or her. (§99.31 (a)(14))

To the parents of a student regarding the student's violation of any Federal, State, or local law, or of any rule or policy of the school, governing the use or possession of alcohol or a controlled substance if the college determine the student committed a disciplinary violation and the student is under the age of 21. (§99.31 (a)(15))

For additional information about student rights under the Privacy Act, please visit the FERPA website: <http://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html>

Non-discrimination - Equal Opportunity

College of the Redwoods is committed to equal opportunity in employment, admission to the College, and in the conduct of all of its programs and activities.

CR's policy complies with California Education Code and Title 5 of the California Administrative Code, and with related federal laws (Title VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, and Section 504 of the Rehabilitation Act of 1973).

Under these regulations, College of the Redwoods guarantees that no person shall be subjected to discrimination on the basis of ethnic group identification, religion, age, gender, sexual orientation, color, or physical or mental disability under any of its programs or activities.

All classes are open to those who have met the aca-

demographic prerequisites. The College also affirms its commitment to equal opportunity employment as a part of its Equal Employment Opportunity District Plan.

The Director of Human Resources is the college officer responsible for insuring District compliance with these regulations. Inquiries concerning the application of the above federal and state laws as well as the following:

- **I. Unlawful discrimination - Equal Opportunity**
Title 5 C.A.C., Title IX/Title VI and VII:
- **II. Section 504**
Staff Diversity Coordinator 707-476-4144 should be directed to the Director of Human Resources.

Sexual Harassment

Sexual harassment is a form of unlawful discrimination. Sexual harassment includes unwelcome sexual advances, requests for sexual favors, and other verbal, visual, written, or physical conduct of a sexual nature which makes the work or educational environment offensive, hostile, intimidating, or unpleasant or which interferes with work or academic performance.

CR endeavors to provide students and employees with an educational work environment free from sexual harassment and other prohibited discrimination. While on the campus, College employees and students are expected to adhere to a standard of conduct that is respectful and courteous to fellow employees, students, and to the public. The District will not tolerate sexual harassment in any employment setting or in any academic program or activity.

If you need to file a sexual harassment complaint, contact the Director of Human Resources 707-476-4144.

Academic Accommodations

Under federal and state laws, the college is required to make modifications to academic requirements and practices as necessary in order to ensure that they do not discriminate against a qualified student with a disability. The college is also required to have a policy and procedure for responding to students with verified disabilities who request academic accommodations. Students with disabilities have the right to receive reasonable academic accommodations in order to create an educational environment where they have equal access to instruction, without fundamentally altering any course, educational program, or degree. Reference: the Americans with Disabilities Act (Pub. L. 101-336); the Rehabilitation Act of 1973, Part 504 [34 C.F.R. § 104.3(j)(1) and (k)(3) and §104.44(a) and (b)(1)(ii)]; the Family Educational Rights and Privacy Act of 1974; and Title 5 of the California Code of Regulations.

For more information see BP/AP 5140 Disabled Student Services.

Requests for Academic Accommodations

The Disabled Students Programs and Services (DSPS) Office is a resource for the general college community for information about and implementation of academic accommodations. Through an interactive process with DSPS, appropriate accommodations are identified.

If you need academic accommodations, meet with one of the DSPS Counselors to complete a Support Services Agreement (SSA).

Share information from the SSA with your instructor(s). If the instructor agrees, the accommodation is then implemented.

While the right to accommodations is not negotiable, its implementation is. If the instructor ques-

tions the implementation, the student, the DSPS Director and the instructor continue to talk until an agreement is reached. (*Note: this may mean that an alternative accommodation may be implemented.*)

If the rare circumstance occurs that no agreement can be reached, the accommodation is temporarily implemented (per Board Policy 533) pending final resolution by the Academic Accommodations Committee.

The Academic Accommodations Committee meets and reviews all information regarding the request. The committee will either approve, deny, or recommend a third accommodation. The decision is then final.

What to Do if You Have A Concern About Academic Programs or College Services

We at College of the Redwoods recognize that there may be times when students have concerns about educational programs and services. To assist students, we have established a process which allows us to resolve issues informally and protect student rights. The information below will help explain the procedures to be followed to resolve concerns.

Grade Changes

Redwoods Community College District Board of Trustees Policy | BP 4231

The President/Superintendent or his/her designee shall implement procedures to assure the accuracy and integrity of all grades awarded by faculty. The procedures shall include, but not necessarily be limited to, the following:

- Assurance that in the absence of mistake, bad faith, fraud or incompetence, the grades awarded by faculty shall be final.
- Procedures for students to challenge the correctness of a grade.
- The installation of security measures to protect grade records and grade storage systems from unauthorized access.
- Limitations on access to grade records and grade storage systems.
- Discipline for students or staff who are found to have gained access to grade records without proper authorization or to have changed grades without proper authorization.
- Notice to students, faculty, transfer institutions, accreditation agencies and law enforcement agencies if unauthorized access to grade records and grade storage systems is discovered to have occurred.

References: Education Code Sections 76224 and 76232; Title 5 Section 55025

Adopted by Board of Trustees: 08/02/11

Amended: June 7, 2016

Grade Changes

BP 4231 /AP 4231

Course Grade Challenge

The instructor of the course shall determine the grade to be awarded to each student. The determination of the student's grade by the instructor is final in the absence of mistake, fraud, bad faith or incompetence. Any student who believes he or she has a grade grievance

shall make a reasonable effort to resolve the matter on an informal basis. If the student's concern cannot be resolved informally, this procedure outlines the course grade challenge process. The course grade challenge process is not a legal proceeding. An observer may attend meetings as support but may not act as legal counsel. When challenging a grade assigned by an instructor, the burden of proof is on the student to provide evidence of mistake, fraud, bad faith, or incompetence.

Grades will be reviewed within the following context:

1. **Mistake** – an unintentional act, omission or error by the instructor or the college.
2. **Fraud** – a deception deliberately practiced in order to secure unfair or unlawful gain.
3. **Bad Faith** – assigning a grade that is not based on the grading system found in the course syllabus or changing the grading criteria without prior notification to the students.
4. **Incompetence** – a lack of ability, legal qualification, or fitness to discharge a required duty.

Step 1: Discuss the Issue with the Instructor. Every attempt should be made to discuss the issue with the instructor. However, if the instructor is not available or the student does not wish to meet with the instructor, the student may proceed to Step 2.

Step 2: Student Files a Grade Challenge Form. No later than the second week of the academic semester following the award of the grade, a student may file a grade challenge form and supporting evidence with the Dean/Director. The Dean/Director will forward a copy of the completed course grade challenge form and supporting evidence to the instructor.

Step 3: Instructor's Rebuttal to Grade Challenge.

The course instructor is required to respond within ten (10) faculty contracted work days of their notification of the challenge. During times when faculty are not under contract to teach, the course instructor is not mandated to respond and students may need to wait until the faculty member resumes contracted work days. The instructor is responsible for providing the criteria used in determining the course grade as part of their written response. The instructor's written response will be sent to the Dean/Director, who will forward the rebuttal to the student. If needed, additional information may be requested by the Dean/Director from the student and/or instructor. In the event that the instructor is on leave or no longer employed by the District, the Dean/Director may appoint another faculty member as a substitute in these proceedings.

Step 4: Meeting with Dean/Director, Student and Instructor. Following the review of these materials, the Dean/Director shall meet with the student and the instructor together to attempt to resolve the dispute. If the student chooses not to attend this meeting the course grade challenge is terminated. The Dean/Director may request additional documentation from either student or instructor to help in the mediation process, which may require a follow-up meeting. If the course grade challenge is not resolved or terminated at this step, the student may then proceed to Step 5.

Step 5: Appeal to a Course Grade Challenge Committee. If the course grade challenge is not resolved or terminated at Step 4, the student may file a written request with the Chief Instructional Officer/Chief Student Services Officer (CIO/CSSO) for a review of the evidence by a Course Grade Challenge Committee. The written request for a review must be submitted within fourteen (14) calendar days of the completion of Step 4. Failure to submit this request within fourteen (14) calendar days terminates the course grade challenge. Upon receipt of this request, the CIO/CSSO

shall convene a Course Grade Challenge Committee comprised of two faculty members, two students, and the CIO/CSSO who shall serve as the non-voting chair. The CIO/Chair shall advise the student and the instructor of the date, time and location of the appeal hearing. The hearing shall be informal and shall take place before the entire Course Grade Challenge Committee. No formal witnesses representing either party may attend. However, each party may have an advocate that does not act as legal counsel. The format and duration of the hearing shall be left to the discretion of the committee. The burden of proof rests with the student. The student and the instructor shall answer questions related to the materials submitted in Steps 2-4.

At the close of the hearing, the decision to affirm or deny the student's Course Grade Challenge shall be determined by a vote of three out of four of the voting members, and shall be based solely upon substantiation of mistake, fraud, bad faith, or incompetence (Ed. Code 76232). The decision of the committee shall be final. The Committee shall submit a written report of its decision to the CIO/CSSO within three (3) working days of the hearing or review of the written record, as the case may be. The Chief Instructional Officer shall notify the instructor and the student of the outcome within three working days after receiving the Committee's written report. The Committee's written report shall be considered Confidential. At the conclusion of this process, all documentation will be secured in the office of the CIO/CSSO.

The decision of the Course Grade Challenge Committee will be final. If the student feels they have been denied due process through these proceedings, please refer to BP 5530 Student Complaints and its procedures.

Late Withdrawal

Students who have extenuating circumstances beyond their control (i.e., medical issues or military orders) may petition for a withdrawal after the deadline. Students must complete a petition, include detailed information and attach verifying documentation within one year of the term in question.

Security of Grade Records

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

The measures implemented by the District shall include appropriate security for database access and locking mechanisms for computer stations from which student grade databases can be viewed, and strict limits on who is authorized to change student grades.

Anyone authorized to change grades shall be designated by the CIO/CSSO or his/her designee. No more than five District employees may be authorized to change student grades. Only regular full-time employees of the District may be authorized to change grades. Student workers may not change grades at any time.

Anyone who discovers unauthorized activity in grade databases shall notify the CIO/CSSO or his/her designee who shall immediately take steps to lock the grade storage system entirely while an investigation is conducted.

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

Whenever a grade is changed for any reason, corrected transcripts will be sent to any educational institution to which a student has transferred. Any student or employee who is found to have gained access to grade recording systems without proper authorization, or who is found to have changed any grade without proper authority to do so, shall be subject to discipline in accordance with District policies and procedures.

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

Student Complaints other than Academic Complaints or Unlawful Discrimination - AP 5530

If a student wishes to lodge a complaint other than academic complaints or unlawful discrimination, he or she may seek redress through the following procedures. Student complaints adjudicated under this regulation are those complaints brought against a decision made or action taken by the College that is alleged to adversely affect a student's status or privileges. These complaints may include matters such as: complaints about college staff, a challenge to a student's academic record, or complaints about a service or program. Student complaints within the purview of this regulation must be filed with the Chief Student Services Officer (CSSO) within thirty (30) days of the decision, action, or incident that is the source of the complaint.

A. Informal Resolution Process

Many complaints are simply the result of misunderstanding or miscommunication. The parties involved are recommended to first seek to resolve any complaints informally and amicably. For most complaints, a direct discussion with the immediate supervisor of the employee, program, service, or area of responsibility relevant to the complaint, may be adequate to resolve the matter to the satisfaction of both parties.

1. Discuss Complaint with Supervisor

The student shall first attempt to resolve the complaint through informal consultation with the specific area administrator or supervisor of the employee, program, or service against whom the complaint is lodged. Such a meeting should be held in private within ten (10) working days after the decision, action or incident. All issues involved should be clearly defined so they may be discussed as objectively as possible. Both parties should openly discuss the student complaint/concern and attempt to understand the other's perspectives, explore options/alternatives, and attempt to arrive at a satisfactory resolution to the complaint. At the student's request, an Associated Student, College of the Redwoods (ASCR) member, or CR College Staff or faculty member, may be invited and/or assigned to assist the student in clarifying the complaint process, writing the complaint, and/or supporting the student throughout the complaint process.

2. Express Complaint in Writing

If the student is dissatisfied with the results of the discussion with the supervisor, the student should submit a "Statement of Complaint" (see form below) that clearly expresses in writing the complaint and the desired solution. This statement shall be submitted to the CSSO within five (5) business days follow-

ing the meeting with the specific area administrator or supervisor as described above.

3. Supervisor Conference

On receipt of the student's "Statement of Complaint," the immediate supervisor will, within ten (10) working days, arrange a conference or meeting with the employees, service area personnel, and any other relevant staff. The purpose of this meeting will be to determine if there are any legitimate grounds for the complaint, if staff have any suggestions for resolution or improvement, and to discuss any possible actions. The student complainant may or may not be asked to attend, at the discretion of the supervisor. After discussion with staff or employees and review of relevant materials or evidence, the supervisor shall render a decision on the complaint to all parties and shall within five (5) business days provide a written copy of that decision to each involved party. The supervisor will then forward all relevant documents, evidence, meeting notes, the "Statement of Complaint" form, and any other materials, to the CSSO.

B. Formal Resolution Process

If the complaint cannot be satisfactorily resolved at the informal level, then the Formal Resolution Process shall be followed:

1. Student Files a Request for Hearing

The student must complete and deliver to the CSSO (or Campus Dean at the Education Centers), the "Request for Hearing" form within ten (10) business days of receiving the written decision rendered by the area supervisor as described above.

2. CSSO Convenes the College Hearing Committee

The CSSO (or Campus Dean at the Education Centers) or designee shall then convene the College Hearing Committee within a period of fifteen (15) business days following receipt of the Request for Hearing to consider the complaint. The CSSO shall consider the preferences of the accused student, the nature of the complaint, and the availability of the committee members when assigning the case for a hearing. The College Hearing Committee shall be composed of the following:

- Two students appointed by the ASCR President
- Two faculty members appointed by the Academic Senate President
- One classified member appointed by the CSEA President
- One administrator, who shall chair the committee, appointed by the College President or designee

All committee members shall be selected from among persons with little or no connection to the source of the complaint and that had no involvement in the decision, action, or incident. The CSSO or Campus Dean shall also confirm that all prospective members are not related in any way to the complainant.

3. Hearing Procedures

The Chair of the College Hearing Committee will establish a hearing format consistent with this administrative procedure. Formal hearings will be conducted by the committee according to the following guidelines:

- 1) In complaints involving more than one student complainant, the Chair of the College

Hearing Committee will determine if hearings concerning each student will be conducted jointly or separately. The decision of the Chair shall be final on all matters relating to the process of the hearing unless there is a vote by other members of the panel to the contrary.

2) The student(s) will be notified by certified mail of the hearing at least five business days in advance of the hearing. The letter will inform the student of the time, location and place of the hearing and include a copy of this administrative procedure.

3) All parties shall be present at the hearing. In the willful absence of the complainant and/or a representative of his/her choice, the complaint will be dismissed.

4) Hearings shall be closed and confidential unless the one of the parties requests that it be open to the public. Any such request must be made no less than five days prior to the date of the hearing. In a closed hearing, witnesses shall not be present at the hearing when not testifying, unless all parties and the Chair agree to the contrary.

5) Quorum for a hearing requires that four (4) of the six College Hearing Committee members are present for the hearing. If the case is to be heard at the Mendocino or Del Norte site, a quorum will be three (3) members of the Committee.

6) The parties may be accompanied by an advisor if so desired. The advisor may attend the hearing with the student to counsel him/her and suggest questions. The parties may be present during the entire time of the hearing, except during the deliberations of the Committee. In no event may the advisor participate directly by speaking for either party or questioning witnesses. Admission of any other person to the hearing will be at the discretion of the Chair.

7) The student may represent him or herself, and may also have the right to be represented by a person of his or her choice, with the exception that the student shall not be represented by an attorney unless agreed to in advance of the hearing by the Chair. The student must note on the Request for a Hearing form if the student wishes to be represented by an attorney. If the student is permitted to be represented by an

attorney, the Committee may also request legal assistance. Any legal advisor provided to the Committee may sit with it in an advisory capacity to provide legal counsel but shall not be a member of the panel nor vote with it.

8) The parties may present evidence, including witnesses and written statements. The Chair will determine the format of the hearing, and the admissibility of witnesses or written statements, and may elect not to hear such statements if deemed redundant or irrelevant.

9) The Chair retains authority to question witnesses and parties to the alleged violations and will determine the appropriateness of questions posed by the parties. Other committee members should request and receive the permission of the Chair before asking questions of the witnesses. Employees against whom complaints have been filed will be advised of their right to remain silent, and may choose not to respond to any questions.

10) Pertinent and relevant information may be reviewed without regard to the legal rules of evidence.

11) The person making the complaint shall assume the burden of proof.

12) There will be a single verbatim recording, digital or taped, of all hearings before the Committee. No witness who refuses to be recorded may be permitted to give testimony. In the event the recording is by tape recording, the Committee Chair shall, at the beginning of the hearing, ask each person present to identify themselves by name, and thereafter shall ask witnesses to identify themselves by name. Recordings shall remain in the custody of the College at all times, unless released to a professional transcribing service. Access is limited to reviewing the verbatim record only on College premises and in the presence of the CSSO or designee. The verbatim record will be the property of the College.

13) The College Hearing Committee may accommodate concerns for the personal safety, well-being, or fears of confrontation of the complainant, staff or other witnesses during the hearing by providing separate facilities, by using a visual screen, or permitting participation by

telephone, videophone, closed circuit television, video conferencing, videotape, audio tape, written statement, or other means, as determined in the sole judgment of the Chair to be appropriate and in the best interests of the parties.

14) Following testimony of witnesses, the Committee shall consider the complaint and determine if the complaint is valid. Determination of validity shall be based on the preponderance of evidence.

15) The Committee shall then decide, by majority vote, if any remedy, action, or decision is required or necessary. The decision shall be based only on the record of the hearing, and not on matters outside of that record. The record consists of the original accusation, the written response, if any, of the student and staff, and the oral and written evidence produced at the hearing. The Committee need not limit its recommendations to the remedy requested by the student.

16) The Committee shall submit in writing its findings of validity and recommend action to the President. The President may accept or modify part or all of the Committee's recommendation and shall submit the decision, with stated reasons, to all concerned within the shortest reasonable time after the decision has been rendered, but not to exceed ten (10) business days after the hearing.

17) The decision shall include whether the complaint is valid or invalid, and may include specific recommendations for further action.

18) The student shall have the right to submit a written statement of response to the decision of the President. This statement shall be included with all other compiled records of the complaint.

19) The decision of the President shall be final.

20) The President shall refer all records to the CSSO or designee for retention.

Approved: 02/07/2012

Former Administrative Regulation #528.02, "Regulation Re: Student Complaints other than Unlawful Discrimination," Approved: 3/16/82 Revised 6/6/94, 10/9/95

Adopted by Board of Trustees March 16, 1982 Revised: June 6, 1994; October 9, 1995

SAFETY AT COLLEGE OF THE REDWOODS

This section of the catalog is published in accordance with Section 201, P.L. 101-542, the "Crime Awareness and Campus Security Act of 1990."

Crime Reporting Procedures

Safety at College of the Redwoods is everybody's business. No community can be totally risk free in today's society. Students, faculty, staff and visitors are partners in creating an environment that is safe and conducive to learning. To that end College of the Redwoods maintains a Public Safety Department with personnel available twenty-four hours a day. The District's Public Safety office is located on the Eureka Campus on the lower-level of the Redwoods Business

Complex -A (Old Administration Building).

Individuals may report alleged criminal actions (including sex offenses) or emergencies that occur on campus through any of the following means:

- Dial 9-1-1.
- Call Public Safety at 707.476.4111 (Eureka campus) or 707.465.2311 (Del Norte Campus).
- Go to the Public Safety office.
- Use an emergency telephone, located throughout the campus to contact Public Safety at x4111.
- Contact an officer in uniform on patrol.
- Ask any College of the Redwoods Campus Security Authority (CSA) to assist with reporting a crime.

Campus Security for Satellite Locations and Occasional Instruction Sites

College of the Redwoods has three campuses other than Eureka: Del Norte Campus, Klamath-Trinity and the Eureka Downtown Education Center. The Del Norte Campus has security officers working mainly while classes are in session. Local law enforcement responds to any issues at these locations.

Access to Campus Facilities

Most campus buildings are open from 7:00 a.m. until 10:00 p.m. during periods that classes are in session. Individual rooms may be locked due to sensitive contents such as computers, medical equipment, etc.,

until the arrival of the specific instructor.

Individuals who need to be in campus buildings or areas other than during regularly scheduled work hours should notify their department chairperson or supervisor as well as the campus Public Safety Officer on duty so that they can be checked on for their safety. Several campus rooms are protected by intrusion alarms. Before entering such areas, the Public Safety Department should be called.

Campus buildings are normally locked from 5:30 p.m. Friday until 7:00 a.m. Monday. College Public Safety Officers will unlock doors for weekend classes and other events as published in the Facilities Use Schedules which are prepared by Facilities and Grounds.

It is the responsibility of those who use rooms, offices and areas to lock access doors, turn off lights, and close windows. College Public Safety and Custodial staff will check the entire campus during off hours, but the primary responsibility lies with the facility user.

Keys are provided to individual staff members on a need-to-enter basis as determined by the appropriate supervisor. Keys are issued by Facilities and Grounds. Lost keys should be immediately reported to one's supervisor, Facilities and Grounds and Public Safety. Keys should never be loaned to other staff members or students. College Public Safety personnel will confiscate any keys which have not been specifically issued to a particular individual. Duplication of District keys is a misdemeanor.

District owned property is not to be removed from the campus without expressed written authorization from the department chairperson or area supervisor. Unauthorized removal of District property from the campus is a violation of the law and may be prosecuted by the District.

Law Enforcement, Security Authority and Prompt Reporting

It is the policy of the College of the Redwoods Board of Trustees to provide reasonable protection to the college community using methods that fit within and contribute to the educational philosophy of the institution. This protection extends to both the users of college facilities, and the facilities themselves. Law enforcement for the Eureka campus is provided by the Humboldt County Sheriff's Office who investigates crimes of violence and other felonies. The Del Norte Sheriff's Office provides law enforcement for the Del Norte Education Center. College Public Safety provides first response to all crimes reported and investigates minor, or misdemeanor offenses. They report such offenses to the Administration where a determination is made as to possible disciplinary action. Campus Public Safety personnel are not peace officers and do not have the arrest authority of a peace officer. They may perform citizen's arrests on behalf of the College at the request of law enforcement personnel.

College of the Redwoods has a formal memorandum of understanding with the Humboldt County Sheriff's Office and the Del Norte Sheriff's Office, along with local police agencies to provide investigative and response assistance for violent crimes, or those crimes beyond the capabilities of the Public Safety personnel. The Sheriff's Department is called at any time that an arrest is anticipated.

College of the Redwoods has contracted with the Humboldt County Sheriff's Office to have a Resource Officer on the Eureka Campus Monday-Thursday

for the Fall and Spring Semesters. This helps College of the Redwoods by having an armed deputy on campus and having a quicker response time from the Sheriff's office.

College of the Redwoods also employs student parking enforcement personnel at the Eureka Campus with local training specific to parking enforcement. They are not peace officers. All college personnel are instructed to promptly report criminal or other suspicious behavior to the Public Safety Department for investigation. The public is encouraged to do the same.

Crime Prevention

An essential ingredient to any successful crime prevention program is an informed public. It is the intent of College of the Redwoods to inform students and staff in a timely manner of any criminal activity or security problems which may pose a threat to their physical safety or the protection of their property. Such information is normally distributed to students through messages posted on kiosks and bulletin boards throughout the campus, and more heavily in the area affected by the activity. Staff members are informed through memos and/or e-mail.

Public training is also a critical element to a campus safety program. Student Health, Housing, and Counseling sponsor programs on various topics ranging from sexual assault awareness to substance abuse prevention. Public Safety also provides programs suitable for college success classes on general safety, proactive self-protection and crime prevention on campus.

Finally, an effective crime prevention program includes at least some measure of people watching out for one another. All staff and students are asked to be alert, security conscious and willing to be involved. Call the college Public Safety staff at extension 4111 whenever you observe suspicious behavior on campus.

Off-Campus Crime

The Humboldt County Sheriff's Office provides law enforcement coverage for the areas adjacent to the college campus. The Sheriff's Office provides information concerning serious crime in areas adjacent to the college and such information is disseminated in the fashion described in crime prevention.

Substance Abuse

In compliance with Public Law 101-226, the "Drug Free Schools and Communities Act Amendment of 1989," the Board of Trustees of College of the Redwoods prohibits the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees on College of the Redwoods property and/or as part of any College of the Redwoods sponsored or sanctioned activity.

Any student or employee in violation of this policy is also in violation of the Student Code of Conduct, and is subject to disciplinary action up to, and including, expulsion from College of the Redwoods, or termination from District employment.

The possession, use and sale of alcoholic beverages by anyone on College of the Redwoods property is a misdemeanor per California Business and Professions Code Section 25608 and a violation of the Student Code of Conduct. The use, sale or possession of any illegal drug is a violation of state law and any person found in violation may be subject to arrest by federal, state or local law enforcement authorities.

The decision to take disciplinary action as a result of

these violations rests with the President of College of the Redwoods by authority delegated by the Board of Trustees. Criminal prosecution is separate from any administrative discipline that may be imposed by the District.

Sexual Assault Programs & Procedures

College of the Redwoods offers a variety of sexual assault prevention programs through the Student Health Center, Counseling and Housing that address assaults including rape, acquaintance rape, forcible and non-forcible sex offenses. If the individual prefers counseling from an off campus source, the North Coast Rape Crisis Team can be contacted at 707.445.2881 (Humboldt) or 707.465.2851 (Del Norte), or North County Rape Crisis Services at 805.922.2994.

In the event that a sexual assault takes place, Campus Public Safety recommends that the following procedures be followed:

1. Public Safety at extension 4111 should be contacted immediately. All campus Public Safety Officers are Emergency Medical Technicians (EMT's), and as such will provide advice on procedures and notifications.
2. Call the North Coast Rape Crisis Team. They can be contacted at 707.445.2881, or North County Rape Crisis Services at 805.922.2994 if the individual requests immediate counseling and advocacy.
3. Those assaulted should not bathe or shower until after they are seen at an emergency room or by a physician. This is critical to preserving DNA evidence.
4. Those assaulted may decide to have the assault investigated by the local law enforcement agency (the Humboldt County Sheriff if the assault takes place on campus). The Public Safety Officer on duty, or any other college employee involved at the time the report is made, will assist the student in contacting the appropriate agencies for law enforcement response and/or counseling.
5. To facilitate the assailant's arrest and prosecution, it is important to provide all known information regarding the assault to the law enforcement officer or Public Safety Officer responding, including the name or description of the person responsible, the location of the assault, the circumstances involved and any other details requested.
6. Students involved in a sexual assault case may request a change in their classroom and/or living situations on campus; the college will accommodate such requests when it is determined that it is feasible and reasonable to do so. The student should contact the Vice President, Instruction & Student Development to make those arrangements.
7. Be aware that all parties involved in sexual assault cases are entitled to have others present during a disciplinary proceeding. The parties will be kept informed of the college's final determination with respect to the sex offense, including any sanction that is imposed against the accused.

Additional resource information may be obtained from the following CR website:

<http://www.redwoods.edu/sexualhealth/>

CAMPUS CRIME STATISTICS

The "Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act" requires the publication and distribution of statistical data on selected crimes and incidents. These statistics represent alleged criminal offenses reported to our local Public Safety personnel. This information is also combined with statistics gathered from local law enforcement agencies that provide coverage to our various campuses and instructional locations. A full report of campus crime statistics and policies is available at www.redwoods.edu/publicsafety/Clery-Act-Safety-Stats. The statistics in this report show a summary of all instructional locations. Prospective students and employees should read the entire report at the above web link to get a clear description, by site, of any crime issues. These statistics represent alleged criminal offenses reported to our Public Safety personnel. Therefore, this data does not necessarily reflect prosecutions or convictions for crime. The annual campus Fire Safety Report is also shown at the web link above.

On-Campus			
All Campuses/Sites/ Locations Combined	2013	2014	2015
Criminal Homicide			
Murder/non-negligent manslaughter	0	0	0
Negligent manslaughter	0	0	0
Sex offenses			
Forcible	0	0	0
Non-Forcible	0	0	0
Robbery	0	0	0
Aggravated assault	2	0	4
Burglary	8	5	5
Motor vehicle theft	1	0	1
Arson	0	0	0
TOTAL	11	5	10
Arrests for weapons possession	0	0	0
Discipline for weapons possession	3	0	0
Arrests for drug violation	0	0	
Discipline for drug violations	7	3	6
Arrest for liquor laws	1	0	0
Discipline for liquor laws	2	1	1
TOTAL	13	4	7
Domestic violence	0	0	0
Dating violence	0	0	0
Stalking	0	0	1
Hate Crimes	0	0	0

Student Housing			
Residential Housing Facilities*	2013	2014	2015
Criminal homicide			
Murder/non-negligent manslaughter	0	0	0
Negligent manslaughter	0	0	0
Sex offenses			
Forcible	0	0	0
Non-Forcible	0	0	0
Robbery	0	0	0
Aggravated assault	0	0	0
Burglary	0	0	0
Motor vehicle theft	0	0	0
Arson	0	0	0
TOTAL	0	0	0
Arrests for weapons possession	0	0	0
Discipline for weapons possession	0	0	0
Arrests for drug violation	0	0	0
Discipline for drug violation	0	3	3
Arrests for liquor laws	0	0	0
Discipline for liquor laws	0	1	1
TOTAL	0	4	4
Domestic violence	0	0	0
Dating violence	0	0	0
Stalking	0	0	0

**Only the Eureka campus has Residential Housing*

Dorm Fire Safety			
	2013	2014	2015
Fires	0	0	0
Injuries	0	0	0
Deaths	0	0	0
TOTAL	0	0	0

Non-Campus Locations			
All Campuses/Sites/ Locations Combined	2013	2014	2015
Criminal Homicide			
Murder/non-negligent manslaughter	0	0	0
Negligent manslaughter	0	0	0
Sex Offenses			
Rape	0	0	0
Sodomy	0	0	0
Assault with an object	0	0	0
Fondling	0	0	0
Incest	0	0	0
Statutory rape	0	0	0
Robbery	0	0	0
Aggravated assault	0	0	0
Burglary	0	0	0
Motor vehicle theft	0	0	0
Arson	0	0	0
TOTAL	0	0	0
Arrests for weapons possession	0	0	0
Discipline for weapons possession	0	0	0
Arrests for drug violation	0	0	0
Discipline for drug violations	0	0	0
Arrests for liquor laws	0	0	0
Discipline for liquor laws	0	0	0
TOTAL	0	0	0
Domestic violence	0	0	0
Dating violence	0	0	0
Stalking	0	0	0

Non-Campus Buildings or Property is defined as "any building or property owned or controlled by an institution that is used in direct support of, or in relation to, the institutions, educational purposes, is frequently used by the students, and is within the same reasonably contiguous geographic area of the institution.

Public Property			
All Campuses/Sites/ Locations Combined	2013	2014	2015
Criminal Homicide			
Murder/non-negligent manslaughter	0	0	0
Negligent manslaughter	0	0	0
Sex Offenses			
Rape	0	0	0
Sodomy	0	0	0
Assault with an object	0	0	0
Fondling	0	0	0
Incest	0	0	0
Statutory rape	0	0	0
Robbery	0	0	0
Aggravated assault	0	0	0
Burglary	0	0	0
Motor vehicle theft	0	0	0
Arson	0	0	0
TOTAL	0	0	0
Arrests for weapons possession	0	0	0
Discipline for weapons possession	0	0	0
Arrests for drug violation	0	0	0
Discipline for drug violations	0	0	0
Arrests for liquor laws	0	0	0
Discipline for liquor laws	0	0	0
TOTAL	0	0	0
Domestic violence	0	0	0
Dating violence	0	0	0
Stalking	0	0	0
<i>Public property is defined as "All public property, including thoroughfares, streets, sidewalks, and parking facilities, that is within the campus, or immediately adjacent to and accessible from the campus."</i>			





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