What is your Citrus Story?
My Citrus Story

Joshua Gaglia

As a senior in high school, I thought I knew what I wanted to do with my life. However, after I was accepted into a local college as an engineering student, I realized I wasn’t so sure anymore. I knew I wanted to do something else. I just didn’t know what that would be.

So, I decided to attend Citrus College, where I encountered instructors who provided me with helpful information and wise counsel. In particular, Professor Brian Waddington took extra time to mentor me. Through our discussions and interactions, I became more focused on my goals – and discovered I wanted to pursue a career in business.

My hard work paid off when I was accepted at some of the most influential business schools in the nation, ultimately choosing the prestigious University of California, Berkeley’s Haas School of Business over USC, UCLA, and others. Now, I’m getting the chance to achieve my highest dreams. Thank you, Citrus – and thank you, Professor Waddington.

Denicia Crutcher–Harris

I didn’t decide to get a college degree until I had an infant with disabilities and a young child in school. Unsure of what I could do as a single mother, I knew I liked math and figured I might try to work toward a degree that utilized that skill.

One day I took my baby for a walk on the Citrus campus. While I was there, I was convinced to try to start over in spite of any misgivings I had about succeeding. Right then, I enrolled in classes.

At Citrus, I discovered what I really wanted to do in life. I found a new “family” and made lots of friends. The EOP&S staff, in particular, encouraged me and provided counseling and support as I began my transformation from a shy person into a confident, active participant in clubs and campus life.

In 2009, I received an A.A. in Fine Arts/Dance and an A.S. in Natural Sciences/Math. I will attend the University of Nevada, Las Vegas to pursue a career in Marine and Environmental Science.

Carol Chambers

School was challenging for me, so I never dreamed I would ever attend—much less graduate from—college. In high school, the only thing that kept me going was sports. Having a baby at 18 years old put an end to any thoughts I had for furthering my education or pursuing a career. However, everything changed when a high school friend called and said she needed a pitcher for her softball team at Citrus College. The next thing I knew, I was not only playing collegiate softball, but I was also taking college classes.

Anyone who plays sports knows that winning is the result of a “team” effort, and that’s what I encountered at Citrus when it came to softball and academics. I worked hard, and the support I received from my teachers and counselors helped me overcome my obstacles. I managed to persevere through the tough times and earned a transfer scholarship. I attended the University of La Verne and eventually earned a master’s degree in Counseling. Today, I am a teacher and my three children attend Citrus College.
Citrus Community College District
1000 West Foothill Boulevard, Glendora, California 91741-1899
(626) 963-0323, (TDD) Telecommunication Device for the Deaf, (626) 914-8674 (available 24 hours)
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Notice to Students
The information contained in this catalog is advisory only
and does not constitute a contractual agreement by the col-
lege or guarantee that course content will be strictly fol-
lowed or fulfilled. Citrus College and the Citrus Community
College District reserves the right to change at any time,
without notice, academic requirements to graduate, curricu-
lum course content and structure, and such other matters
as may be within their control, notwithstanding any infor-
mation set forth in this catalog.

All changes and revisions to the catalog that occur after
printing will be posted in the online version of the catalog

There is a $3.00 charge for the Citrus College Catalog.

Citrus College publications are available in an alternate for-
mat upon request by persons with verifiable disabilities.

Citrus College is an Equal Opportunity Institution.
Everywhere you look, from Time Magazine to the White House, the virtues of community colleges are being extolled. In fact, President Obama himself has acknowledged that two-year colleges serve as the cornerstone of our nation’s economic future, calling them “one of America’s underappreciated assets.” In the months and years to come, community colleges will be at the forefront of developing the well-educated citizenry and producing the highly-qualified workforce that is the key to our nation’s economic recovery.

With the national spotlight shining on community colleges, there has never been a more beneficial time to be a student. Studies show that 90 percent of the fastest-growing jobs in America require post-secondary education. In addition, by 2020 two out of five jobs in California will require a college degree. Needless to say, the value of a college education cannot be overstated. Not only will it provide you with opportunities to learn and grow, but it will empower you to contribute to the economic growth of today’s society.

This is where Citrus College comes in. We can help prepare you for the lucrative, stable jobs and careers of the future. Whether you want to enhance your professional value, pursue career preparation, or transfer to a four-year college or university, there is a program or service that can help you reach your goal. In fact, we offer certificates in over 40 different in-demand career/technical programs, including Forestry, Electronics, and Cosmetology. We also provide 47 associate degree options in the areas of Fine and Performing Arts, Social and Behavioral Sciences, Liberal Arts, Applied Arts, Natural Sciences, Physical Education, and Nursing.

As you will see, this catalog is designed to assist you as you embark on your academic journey. At the same time, remember that our faculty and staff are dedicated to helping you every step of the way. While times may be tough now, the future is definitely bright for Citrus College students. On behalf of the Citrus College Board of Trustees, faculty, and staff, I welcome you and wish you every success!

Sincerely,

Geraldine M. Perri, Ph.D.
Superintendent/President

Citrus Community College District Board of Trustees

The Citrus Community College District Board of Trustees establishes policies, approves current and long-range educational plans and programs, and promotes the orderly growth and development of the college.

Residents of the district communities—Azusa, Claremont, Duarte, Glendora and Monrovia—elect a representative to serve on the board for a four-year term. The student trustee is elected annually in a general student body election and serves on the board in a nonvoting capacity.

The Board of Trustees meets on the first and third Tuesdays of every month at 4:15 p.m. All meetings of the board are open to the public and meeting dates are announced in advance. A record of all board transactions is available to the public in the college library.
## 2009-2010 Academic Calendar

Please refer to the Schedule of Classes for registration deadlines

### Fall Semester 2009
August 31-December 19

<table>
<thead>
<tr>
<th>August</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 17</td>
<td>Cosmetology Program begins</td>
</tr>
<tr>
<td>August 27</td>
<td>Welcome Day for New Students</td>
</tr>
<tr>
<td>August 28</td>
<td>Convocation</td>
</tr>
<tr>
<td><strong>August 31</strong></td>
<td><strong>Instruction Begins</strong></td>
</tr>
<tr>
<td>September 5 &amp; 7</td>
<td>Labor Day Holiday</td>
</tr>
<tr>
<td>November 13 &amp; 14</td>
<td>Veterans Day Holiday</td>
</tr>
<tr>
<td>November 26-28</td>
<td>Thanksgiving Holiday</td>
</tr>
<tr>
<td>December 14-19</td>
<td>Final Exams</td>
</tr>
<tr>
<td>December 21-January 1</td>
<td>Winter Break</td>
</tr>
</tbody>
</table>

### Winter Intersession 2010
January 4-February 11

<table>
<thead>
<tr>
<th>January 4</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 16 &amp; 18</td>
<td>Dr. Martin Luther King Jr. Birthday Holiday</td>
</tr>
<tr>
<td>February 11</td>
<td>Instruction Ends</td>
</tr>
</tbody>
</table>

### Spring Semester 2010
February 17-June 12

<table>
<thead>
<tr>
<th>January 4</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 4</td>
<td>Cosmetology Program Begins</td>
</tr>
<tr>
<td>February 12-15</td>
<td>Presidents' Day Holiday</td>
</tr>
<tr>
<td>February 16</td>
<td>Instructional Improvement Activities</td>
</tr>
<tr>
<td><strong>February 17</strong></td>
<td><strong>Instruction Begins</strong></td>
</tr>
<tr>
<td>April 12-17</td>
<td>Spring Break</td>
</tr>
<tr>
<td>May 29 &amp; 30</td>
<td>Memorial Day Holiday</td>
</tr>
<tr>
<td>June 5-11</td>
<td>Final Exams</td>
</tr>
<tr>
<td>June 12</td>
<td>Commencement</td>
</tr>
</tbody>
</table>
Overview and History
Citrus College is located in Glendora, California, near the foothills of the San Gabriel Mountains, and approximately 25 miles northeast of metropolitan Los Angeles. The college has the distinction of being the oldest community college in Los Angeles County and the fifth oldest in California.

This public community college serves more than 200,000 residents and the students of the Azusa, Claremont, Duarte, Glendora and Monrovia school districts.

Citrus College was founded in 1915 under the leadership of Dr. Floyd S. Hayden, who helped bring the community college movement to California. From 1915 to 1961, the college was operated by the Citrus Union High School District. In July 1961, the Citrus Community College District was created to include the Azusa and Glendora unified school districts. In 1967, the district expanded to include the Claremont, Duarte and Monrovia school districts.

Today, Citrus College occupies a 104-acre campus. The college is currently experiencing a major facilities expansion project that is changing the look of the campus and providing facilities that will enhance learning.

The college enrolled 27 students in 1915 and currently serves approximately 14,000 students.

Accreditation and Affiliations
Citrus College is accredited by the Accrediting Commission for Community and Junior Colleges (ACCJC) of the Western Association of School and Colleges (WASC), 10 Commercial Boulevard, Suite 204, Novato, CA 94949, (415) 506-0234. ASCC is an institutional accrediting body recognized by the Council for Higher Education and the U.S. Department of Education. Citrus College’s professional memberships include the American Association of Community Colleges (AACC) and the Community College League of California (CCLC).

Mission Statement
Citrus College delivers high quality instruction that empowers students to compete globally and to contribute to the economic growth of today’s society.

We are dedicated to fostering a diverse educational community and cultural learning environment that supports student success in pursuit of academic excellence, economic opportunity, and personal achievement.

Mission Objectives
Citrus College is a safe, friendly, accessible environment where all students and community members may optimize their academic, career, and cultural development. As Citrus College continues to advance as a dynamic center for life-long learning, we will:

• provide general, lower division coursework leading to an associate degree in the arts or the sciences;
• prepare students to transfer to four-year colleges and universities;
• offer technological services and support for students, faculty, and staff;
• deliver programs to improve basic math, reading, communication, and ESL skills;
• grant opportunities for students to develop a global perspective through a curriculum with international and multicultural applications;
• furnish support services for the intellectual and personal development of all Citrus College students, including opportunities to participate in campus governance;
• foster a comprehensive and enriching program of extracurricular activities;
• conduct community education programs that encourage learning at every stage of life;
• award occupational certificates and degrees for career preparation and advancement;
• administer customized training programs for business and industry;
• increase career development support for students, faculty, and staff through career exploration, counseling, job preparation, job opportunities, and academic and classified staff development;
• collaborate with local high schools in articulation and curriculum development;
• advance cultural and personal enrichment programs for the college and community members, and promote intercollegiate competition opportunities for students.

**Vision Statement**

Citrus College will provide excellent educational opportunities that are responsive to the needs of the community and help students meet economic, social, and environmental challenges to become active participants in shaping the world of the future.

**Values**

1. **Student Focus**
   Meeting community and student needs by creating an educational environment and culture so students can attain a variety of goals.

2. **Excellence**
   Maintain a high standard of integrity and performance leading to the achievement of academic and professional goals.

3. **Collaboration**
   Seeking input from all sectors of the college and the community.

4. **Diversity**
   Fostering a learning community in which the values, goals, and learning styles of all students are recognized and supported.

5. **Life-Long Learning**
   Serving enthusiastic, independent thinkers and learners striving for personal growth.

6. **Integrity**
   Behaving ethically in all interactions at all levels.

7. **Technological Advancement**
   Keeping pace with global technology trends and enhancing traditional instruction with technology to prepare students for success in the workplace.

**Foundation and Alumni**

The Citrus College Foundation is a 501(c) (3) nonprofit corporation founded in 1966 and revitalized in 1982. It is governed by a volunteer board of directors.

In 2008, the Foundation awarded 140 scholarships and grants valued at over $100,000. This assistance allowed Citrus College students to receive the instruction necessary to accomplish their goals.

The Citrus Alumni Association advances the general interest of Citrus alumni, promotes goodwill in the community, raises funds for scholarships, helps Citrus Union High School and Citrus College alumni plan reunions, and assists with special projects that benefit Citrus College. Every year, the college presents the Distinguished Alumni Award at Commencement.
Citrus College Directory

Office of the President
(All telephone numbers are area code 626)

Superintendent/President
Executive Assistant
Administrative Assistant

Dr. Geraldine M. Perri
Christine Link, 914-8821
Pam Sewell, 914-8821

Administrative Divisions

Administrative Services and Finance
Vice President
Administrative Assistant
Bond Program
Environmental Health & Safety Programs
Facilities and Construction
Fiscal Services
Golf Driving Range
Mailroom
Purchasing/Warehouse
Risk Management

Carol R. Horton
Judy Rojas, 914-8890
Robert Bradshaw, project manager, 857-4113
Jeff Eichler, supervisor, 914-8704
Michael Harrington, director, 914-8691
Rosalinda Buchwald, director, 914-8897
Lauri Stoner, supervisor, 914-8835
Dawn Dineley, coordinator, 857-4116
Robert Iverson, director, 914-8888
Eric Guzman, supervisor, 914-8889

Advancement, Foundation, External Relations
Executive Director, Development
& External Relations
Administrative Assistant
Communications
Protocol & Governmental Relations
Reprographics

Jane Cole, 914-8825
Paula Green, director, 914-8873
Marilyn Grinsdale, officer, 914-8824
Thomas Reynolds, supervisor, 914-8740

Human Resources
Director
Administrative Assistant
Human Resources/Staff Diversity

Dr. Robert Sammis
Sandra Coon, 914-8552
Brenda Fink, staff diversity officer, 914-8830

Institutional Research
Director
Administrative Secretary
Research Analysts

Dr. Lan Hao
Linda Swan, 914-8002
Kay Nguyen, 852-8038
Sunny Liu, 852-8038

Technology and Computer Services
Chief Technology Officer
Administrative Secretary
Network Central Computing & Telecommunications Systems
Technology Operations & Support Services

Linda Welz
Linda Miller, 914-8810
Leigh Buchwald, supervisor, 914-8810
Glenna Johnson, supervisor, 914-8812
Academic Affairs
(All telephone numbers are area code 626)

Vice President
Irene Malmgren
Administrative Assistants
Jerry Capwell, 914-8881
Mary Garcia, 914-8882

Administrative Secretary
Kathleen Bueno, 914-8882

Business, Computer Sciences and Information Systems, Distance Education and Library
Accounting, Business, Computer Science and Information Systems, Office Technology and Computer Applications, and Real Estate
Dean
Dr. Stephen Lindsey
Administrative Secretary
Jaclyn Vazquez, 914-8807

Center for International Trade (CITD)
Gene Bohatch, director, 335-4016

Distance Education
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Lari Kirby, supervisor, 914-8569

Library, Audio Visual, Staff Development and Library Technology
Dean
Judi Kemp, 914-8874
Audiovisual Technician
Tina Gutierrez, 914-8576
Public Services Librarian/Bibliographic Instruction
Barbara Rugeley, 914-8642
Technical Services/Systems Librarian
857-4061

Career, Technical and Continuing Education
Architecture, Automotive, Motorcycle and Diesel Technology, Career/Technical Education Programs, Community Education, Contract Education, Cosmetology, Drafting, Electronics, Engineering and Information Technology, Heating & Air Conditioning, Medium & Heavy Truck Technology, Motorcycle and Personal Watercraft Technology, Noncredit Instruction, Public Works and Water Technology
Dean
James Lancaster
Continuing Education
Debbie Vanschoelandt, supervisor, 852-8022
Administrative Secretary
Lois Bottari, 852-6402
Career Technical
Marti De Young, supervisor, 914-8702
Cosmetology
Ervalyn “Gus” Brooks, director, 914-8713
Workforce Development Office
Dr. Kim Holland, director, 914-8700

Fine and Performing Arts, Haugh Performing Arts Center
Fine Arts Department: Art, Digital Media, Photography
Performing Arts Department: Music (Commercial, Instrumental, Vocal), History, Theory, Dance, Theatre, Recording Arts and Haugh Performing Arts Center
Dean
Robert Slack
Administrative Secretary
Autumn Leal, 914-8580
Program Supervisor
Ann Heming, 914-8579
Haugh Performing Arts Center
Greg Hinrichsen, director, 852-8047

Language Arts
College Preparation
Communications: Clarion (student newspaper), Logos (student magazine), Litrus (student creative writing website)
English, English as a Second Language, Foreign Languages: French, German, Japanese and Spanish

Learning Center: Assessment/Testing, Tutoring Center, Language Lab, Writing Center, Reading and Speech Communications
Dean
Samuel Lee
Administrative Secretary
Cathy Day, 914-8856
Honors Program
Brian Waddington, coordinator, 857-4039
Learning Center
914-8571
Mathematics and Health Sciences
College Success Program (Basic Skills), Learning Communities, Mathematics, Teacher Preparation, Dental Assisting, Emergency Medical, Licenced Vocational Nursing (LVN), Nurse Assistant (NA) and Registered Nursing (RN)

Dean
Administrative Secretary
College Success Program (Basic Skills)
Administrative Secretary

James McClain
Cynthia Audelo, 914-8792
Sylvia Smythe, director, 857-4172
Diana Gill, 914-8577

Health Sciences
Administrative Secretary
Administrative Secretary
Dental Assisting
Health Occupations (EMT)
Nursing (ADN)
Nursing (LVN)

Dr. Maureen Estrada, director
Pam Aggers, 914-8720
Cheryl Hall, 914-8791
Claudia Pohl, 914-8728
Dr. Cliff Hadsell, 914-8755
Dr. Maureen Estrada, 914-8791
Gail Tucker, 914-8720

Physical Education and Athletics
Intercollegiate Athletics, Physical Education, Aquatics Center and Fitness Center

Dean
Administrative Secretary

Jody Wise
Isabel Bellman, 914-8650

Physical and Natural Sciences
Astronomy, Biology, Chemistry, Earth Science, Wildland Resources and Forestry, Natural History and Physics

Dean
Administrative Secretary

Eric Rabitoy
Chris Pagano, 914-8789

Social & Behavioral Sciences
Administration of Justice, Anthropology, Child Development/Orfalea Children's Center, Economics, Geography, History, Humanities, Philosophy, Political Science, Psychology, Sociology, Student Government, and Study Abroad Program

Dean
Administrative Secretary
Child Development Center
Study Abroad

Dr. Michael Hurtado
Gayle Allen, 914-8860
Dr. Mickie Allen, director, 914-8501
Lynn Jamison, coordinator, 914-8560
Student Services Division
(All telephone numbers are area code 626)

Vice President
Dr. Jeanne Hamilton
Administrative Assistant
Pam McGuern, 914-8532

Admissions & Records
Admissions, Financial Aid, Registrar, Registration, Service Learning, Student Employment Center, Transcripts and Veterans Center
Dean
Lois Papner
Administrative Secretary
914-8519
Registrar
Judith Heinrichs-Harmon, 914-8597
Financial Aid
Lilia Medina, director, 914-8591
Service Learning
Tedd Goldstein, supervisor, 857-4163
Student Employment Services
Tedd Goldstein, supervisor, 914-8596

Counseling
Career/Transfer Center, Counseling/Advisement Center, Noncredit Matriculation, EOP&S/CARE, CalWORKs and DSP&S
Dean
Lucinda Over
Administrative Secretary
Tonya Ryan, 914-8541
Articulation Officer
Michelle Plug, 914-8637
Career/Transfer Center
Justina Rivadeneyra, coordinator, 914-8639
Center for Teacher Excellence
Rafael Herrera, coordinator, 857-4078
EOP&S/CARE, CalWORKs
Sara Gonzales-Tapia, director, 914-8556
DSP&S
Jennifer McLeod, coordinator, 914-8677
Noncredit Counseling & Matriculation
Kristie Shimokawa, coordinator, 852-8021
Counseling and Advisement Center
Lucinda Over, dean 914-8530
Athletics Counselor
Alicia Longyear, 914-8662
College Success Counselor
Marilyn Eng 914-8662
Nursing Program Counselor
Emily Burch, 914-8791

Student Affairs
Athletic Eligibility, Bookstore, Campus Security, Food Services, International Student Center, School Relations and Outreach, Student Business Office, Student Conduct, Student Life and Leadership Development, and Student Health Center
Dean of Students
Martha McDonald
Administrative Secretary
Teri Shamhart, 914-8601
Bookstore
Eric Magallon, supervisor, 914-8624
Campus Security
Anthony Giannone, supervisor, 914-8611
Food Services
Philomena O'Shea, supervisor, 914-8615
School Relations/Outreach
Ivan McCraven, coordinator, 857-4162
International Student Center
Coe Lamoureux, supervisor, 914-8548
Student Life
Adrienne Thompson, supervisor, 914-8603
Student Health Center
Shauna Bigby, college nurse, 914-8671
How Do I Get Started? Admission, Registration, Matriculation

Admission
Citrus College is an open access institution, offering admission to high school graduates or persons who are at least 18 years of age and possess a high school diploma, GED, certificate of proficiency, or the equivalent. (Special provisions for high school students are addressed in this section.)

Citrus College may also admit, with parental consent, a kindergarten through 10th grade student as a special part-time student upon the recommendation of the principal of the school that the student attends. For more information, contact the Admissions Office at 626-914-8511.

How to Apply
The process of applying to Citrus College begins when prospective students submit an application online through our website, at https://wingspan.citruscollege.edu There is no charge to submit an application and one can be submitted at any time. Computers allowing access to the college website are also available in the Admissions and Records Office, as well as other areas on campus.

Once an application is completed and submitted, the new student will receive a "Welcome to Citrus College" email or letter, which will include a student User ID and Personal Identification (PIN) number. This will enable the student to register for classes, pay fees, and officially enroll at Citrus College.

Residency Requirements
As a public community college, Citrus College is required by law to verify each applicant's residence in accordance with Title 5, the California Education Code. Residence status, known as the residence determination date, is determined as of the day before each term begins and establishes the fees and tuition to be collected at the time of registration.

Residence Classification
Residency classifications shall be determined for each student at the time of registration and if a student has not attended for more than one semester. These classifications are resident, non-resident, or California nonresident tuition exemption (AB540).

California Residents
California residents attend Citrus College tuition free and pay enrollment and incidental fees only.

A Citrus College applicant who has lived in California for less than two years must clearly demonstrate their:
- Intent to make California his/her home or residence
- Physical presence in California for at least one year and one day prior to the first day of school
- Financial independence

California Nonresident Tuition Exemption (AB 540)
Any student, other than a nonimmigrant alien, who meets all of the following requirements, shall be exempt from paying nonresident tuition.
- The student must have attended a high school (public or private) in California for three or more years.
- The student must have graduated from a California high school or attained the equivalent prior to the start of the term (for example, passing the GED, California High School Proficiency exam, or California High School Exit Exam.
- An alien student who is without lawful immigration status must file an affidavit with the college stating that he or she has filed an application to legalize his or her immigration status, or will file an application as soon as he or she is eligible to do so.

Students who are eligible for the AB 540 exemption must complete and submit the California Nonresident Tuition Exemption Request along with the appropriate evidence of high school completion.

*Students who hold non-immigrant visas, {for example, Tourist (B-1, B-2), Foreign Student (F-1), NAFTA (TN & TD) and Exchange Student (J), ECT.} are not eligible for this exemption.

Students who enroll into classes pending notification of approval for the qualifying semester are responsible for the quoted tuition. Students, who are approved based on the submitted documents, will receive a refund on the nonresident tuition they have paid.

The burden of residency proof rests with the applicant.

For more information visit www.citruscollege.edu/ar

Nonresidents
Students who do not meet the California residence requirements will be charged nonresident tuition, plus enrollment and incidental fees. For more information, visit www.citruscollege.edu/ar.
International Student Admission
The International Student Office admits international students holding or attempting to obtain an F-1 Student Visa to Citrus College upon approval of their applications. These students are required to pay international student tuition, the board of trustees determines the amount annually.

In order to qualify for admission, an international student must submit the following:
1. Citrus College application for admission
2. Completed international student application and fee
3. Confidential financial support documents
4. A passing score of the TOEFL examination: 450 (paper based), 133 (computer based), or 45 (internet based)
5. Transcripts from high school and/or college
6. Tuberculosis (TB) test

The following items are required for current F-1 Visa students transferring into Citrus College
1. Copy of I-20
2. Copy of I-94
3. Transfer Form
4. Visa
5. Passport
6. College transcripts

The TOEFL, admissions application, and all supporting materials must be received on or before the published application deadlines for the intended semester. Students are required to take the Accuplacer ESL exam when they arrive at Citrus.

Early Decision Program
The Early Decision Program enables seniors from Azusa, Claremont, Duarte, Gladstone, Glendora and Monrovia high schools, who have submitted a Citrus College application, to visit the campus, take the assessment test and meet with a counselor during the second semester of their senior year.

Seniors who attend other high schools and who are interested in the Early Decision process are encouraged to call the Student Outreach Office at 626-857-4162.

Classes for High School Students
Citrus College offers selected programs and classes for high school students who are in the 11th and 12th grades. These students must be enrolled concurrently at their high schools and at Citrus College. They are required to complete and submit an application and a High School Registration Authorization Form. This form, which requires signatures from a parent and from a counselor or principal, is available online at www.citruscollege.edu/ar

Citrus College summer school classes for high school students are offered at Azusa, Claremont, Duarte and Monrovia high schools through the Noncredit Program. For more information, contact the counseling office at these respective high schools.

Distance Education (Online Classes)
Distance Education classes utilize computer technology to deliver instruction to students who may have schedule constraints, live at a distance, or have a physical disability. These classes have the same content and meet the same requirements as traditional classes, but provide a more flexible way for students to take courses. Many of these online classes require orientations and testing on campus; some classes require no campus attendance at all.

Students who do well in online courses are typically self-motivated, organized, and proactive about their education. Some knowledge of how to use a computer is helpful. In addition, online classes rely heavily on the exchange of information through reading and writing, so a proficiency in these skills is important.

For a complete list of available classes, or for more information, visit the Distance Education web site at www.citruscollege.edu/de or call the Distance Education office at 626-914-8831.

Transcripts
Official high school transcripts are required of new students who attended high school within the last three years. Official college transcripts are required of new students who were previously enrolled in a college or university. Transcripts from all colleges attended are required.

To ensure a smooth registration process it is recommended that transcripts are received and are on file prior to a student’s registration appointment. This may expedite clearance to enroll in courses with prerequisites. Transcripts are also required for financial aid and veteran’s benefits consideration.

Transcripts from colleges accredited by one of the regional associations of the Accrediting Commission for Junior Colleges may be evaluated during a student’s first semester of attendance at Citrus College.

Transcripts from non-accredited colleges are sometimes evaluated for prerequisite and course placement. Military service credits based on a DD-214 are posted after a veteran’s first semester of attendance.
**Enrollment Verification**
Citrus College has authorized the National Student Clearinghouse to act as its agent for verification of student enrollment status. An official Enrollment Verification Certificate may be obtained at https://wingspan.citruscollege.edu

This certificate may be presented to parties such as health insurance agencies, housing authorities, consumer-product companies, and banks when asked to provide official evidence of enrollment at Citrus College.

**Registration**
Registration is conducted prior to every semester and session. In addition to class selection, all fees must be paid during registration. Dates, deadlines policies, and guidelines are listed in the class schedule published for a specific semester or session.

**Class Schedules**
Citrus College publishes a Schedule of Classes each semester and session. These class schedules list the intended credit course offerings and teaching assignments. All class schedules are available online.

www.citruscollege.edu/schedule

Fee Based and Noncredit, Continuing Education schedules are published separately.

**WingSpan**
WingSpan is Citrus College's one stop resource for information and the primary method of registration. It provides online access for students to:
- Apply for admission
- Check application status
- View appointments for registration
- Check registration status
- Register for classes
- Add/drop classes
- Print individual student schedules
- Pay fees by credit or debit card

WingSpan features include access to grades and unofficial transcripts. Visit the college website https://wingspan.citruscollege.edu and download the student guidelines handbook for more information.

**2009-2010 Fees and Expenses**
The enrollment fee is set by the California State Legislature and is subject to change.

**Enrollment Fee:**
- International Student Tuition* $220 per unit
- Nonresident Tuition* $189 per unit

**Campus Service Fees**
- Health Service Fee $17
- BOGW Students $12
- Parking Fee
  - Fall & Spring $30
  - Winter & Summer $15
- Student Service Fee
  - Fall & Spring $14
  - Winter & Summer $9

*Nonresident and International Students are required to pay tuition and enrollment fees for each unit.

A student may be charged an instructional materials fee for instructional or other materials required for specific classes. These materials may include but are not limited to, textbooks, tools, equipment and clothing.

**Student Service Fee**
The Student Service Fee is a voluntary fee that supports campus activities such as athletics, clubs, cultural events, campus improvements and other special programs and services that directly benefit students.

Students receive an ASCC sticker upon receipt of all payments. Stickers may be picked up with the parking permit in Admissions and Records or the Student Business Office. The accompanying flier lists the many benefits, services and discounts available to students who have paid the service fee and received a sticker. Because of the broad range of programs and services provided, all students are requested to pay the Student Service Fee.

Students may waive this fee by obtaining a waiver form from the Student Affairs Office, located in the Campus Center. Proof of registration is required. Students who waive the fee will become ineligible for the benefits associated with this fee, but not for any other student services.

**Health Service Fee**
The Health Service Fee is mandatory for both full-time and part-time students. This fee may be waived only by students whose religious beliefs require that they rely solely on prayer for healing. To receive this waiver, a student must present valid documentation of his or her membership in such a religion to the office of the vice president of student services.

Low-income students will pay a reduced fee if they are eligible according to income standards established by the Board of Governors. (Section 58620 of Title V of the California Code of Regulations.)

**Fee Refund Policy**
Official withdrawals, program changes and refund request forms must be completed by the college-established deadlines. These deadlines, which are based on the beginning and ending dates of classes, are published in the class schedule and online. A one-time, $10 processing fee will be assessed each semester. All refunds are subject to approval by the Citrus Community College District.
It is the student’s responsibility to return the parking permit before the refund deadline in order to receive a refund for this item. Failure to do so will change the amount of the refund. Parking permits must be returned upon official withdrawal from the college and if a student changes from an on campus schedule to a Distance Education schedule.

Cash refunds will not be issued. Credit will be immediately issued to credit card payments. However, the student and cardholder must be present, with the credit card and the credit card receipt, at the time of the refund request. Otherwise, a refund request form must be submitted. Fee payments made with cash, check or debit card will receive a refund by check. This check will be mailed to the address on file with the Admissions and Records Office. Therefore, it is important the address on file is correct and current.

**Student Financial Obligations**
All fees must be paid in a timely manner to avoid losing classes. Fee payment schedules are included in the class schedules and online.

Citrus College will withhold grades, transcripts, degrees, registration privileges, or any combination thereof, from any student or former student who has failed to pay any financial obligation due the college. Holds on a student’s record will be released when the debt obligation has been met. Debts must be paid in the form of cash or money order; a bank service charge will be added to the amount due.

**Cancelled Classes**
Classes may be cancelled at the discretion of the college. Students enrolled in a cancelled class may enroll in other open classes.

Students who have a class or classes cancelled by the college because of low enrollment are eligible for a full refund of fees paid for those classes. The student must file a refund request at the Cashier’s (Bursar’s) Office. All applicable receipts, cards and permits must be attached to the request form.

**Matriculation**

**What Is Matriculation?**
The primary objective of matriculation is to ensure student success. It is designed to assist students in planning, selecting and achieving their educational goals. The matriculation process begins with admission and ends when the student achieves his/her educational goal.

The California Community Colleges Board of Governors defines matriculation as “a process that brings a college and a student who enrolls into an agreement for the purpose of realizing the student’s educational objective through the college's programs and services.”

**Components of Matriculation**
The matriculation plan consists of several components that colleges are required to provide. They are:
- Admissions: a procedure for processing the application
- Orientation: an activity that informs students of their responsibilities; the programs and services offered by the college; academic expectations of the students; the college’s policies and any other appropriate information
- Assessment: using multiple measures of place all non-exempt students into math, reading and English classes
- Counseling and Advisement: development of a Student Educational Plan (SEP) based on the student’s educational goals
- Student Follow-up: early intervention such as the ”Early Alert Program,” follow-up with students on probation and with students who are undecided on a major/career goal
- Coordination and Training: faculty and staff training in matriculation and research on student outcomes
- Research and Evaluation: validation of assessment instruments, analysis of student outcomes, placement rules, and district resources in relation to student needs
- Prerequisites, co requisites and advisories: developing and monitoring the course requirements students need to progress and achieve their educational goals

Under the requirements of Title 5, the following services will be provided for all students who enroll for credit courses.

The college’s responsibility is to:
- Process applications for admission
- Assess basic educational skills and career goals
- Orient students to the college’s programs, services and policies
- Provide quality instruction
- Offer services for educational support
- Provide follow-up evaluation of a student’s educational progress

The student’s responsibility is to:
- Declare and update educational goals
- Attend classes
- Complete assignments and courses
- Meet with a counselor for advisement/evaluation
- Seek out support services as needed
- Maintain progress toward educational goals
Criteria for Exemption from Matriculation Activities
A student may be exempted from matriculation activities including orientation, assessment, counseling or advisement based on one or more of the following:
1. Completion of an associate degree or higher from a regionally accredited college;
2. Enrollment in coursework to advance in current job, or to pursue personal enrichment, or to maintain a certificate/license, AND is enrollment in fewer than five (5) units;
3. Completion of the assessment/orientation components at another college with placement scores on file at Citrus College.

Refusal of Matriculation Services
Citrus College strongly believes in the value of its matriculation process. However, the college recognizes the right of students to refuse to participate in its assessment, orientation, counseling and advisement services. Please contact the Counseling and Advisement Center at 626-914-8530, for more information.
How Do I Adjust to Campus Life
Assessment, Orientation and Placement Ensure a Smooth Academic Transition

Assessment and Orientation
What is Assessment?
All new students who are not exempt from matriculation activities are required to participate in an assessment, orientation and advisement process. This process is designed to assist students in reaching their educational and career goals.

The assessment process at Citrus College provides information regarding language, reading and mathematics skills, and other activities necessary for a successful college experience. Student-reported information is also used, along with available high school and/or college transcripts. Other factors that are used in assessing college readiness may include evaluation of study skills, student goals and career aspirations, and the results of the placement exam.

Assessment information assists the counselor in outlining a useful and clear educational program for the student's long-range educational plans and the eventual attainment of a chosen career.

The assessment program includes:
- Assessment and new student orientation at Citrus College or
- Assessment at Citrus and an online orientation

This assessment program is an effort to provide students with the finest academic advisement and counseling possible. The assessment and orientation process is scheduled throughout each semester and during the summer. For more information, please contact the Testing Center at (626) 857-4035.

Who Should Take the Placement Tests?
All new students enrolling in five or more units and planning to earn an associate degree, a certificate of achievement or a skill award must take an English and math skills assessment. In addition, new students who plan to enroll in English, mathematics or reading classes must participate in the skills assessment process.

Students who have a disability that requires testing accommodations are advised to make arrangements through the DSP&S Office, (626) 914-8675. Deaf Services are available 24 hours, (626) 914-8674 TDD.

Review of Placement
Students who feel their placement does not reflect their abilities may request a Review of Placement. Please contact the Counseling and Advisement Center for more information.

Students may appeal their English and/or math placement if they can demonstrate alternate proof of course equivalency or competency. If extenuating circumstances exist that may affect course placement, students may seek consultation in the appropriate division office. Students should be prepared to present documentation such as high school or college transcripts, or additional test results. After a student's information is reviewed, preparation placement may be adjusted or a retest may be recommended.
What is Orientation?
Orientation, as required by matriculation policy, provides information new students need to ensure a successful transition to Citrus College. This information includes college programs, student services, registration procedures, testing guidelines for student success and more.

The college’s assessment/orientation program may be completed as follows:
1) Completion of new student assessment—call 626-857-4035 for an appointment and
2) Take the online orientation—www.citruscollege.edu/videos or
3) Enroll on one of three counseling classes: COUN 159 College Planning, COUN 159 On Course to Success, or COUN 160 Strategies for College

Counseling/Advisement
All students are encouraged to meet with a counselor every semester to ensure their educational plan accurately reflects their educational goal.

The college counseling staff provides a variety of services including but not limited to, educational planning, career counseling, university transfer counseling, personal counseling (personal concerns and issues affecting students’ academic progress), Disabled Student Programs and Services (DSP&S), Extended Opportunity Program and Services (EOP&S), and financial assistance programs. The counselors assist in long-range planning and in checking specific requirements so that students meet graduation requirements and course prerequisites, secure career/technical certificates and licenses, and fulfill requirements for transfer to other colleges or universities.

New, non-exempt students are strongly encouraged to see a counselor. If meeting with a counselor is not an option, it is strongly recommended that the student take COUN 156, College Planning; COUN 159, On Course to Success; or COUN 160 Strategies for College Success during their first semester at Citrus College.

Students on probation are required to make a formal counseling appointment well in advance of registration. Veterans planning to receive G.I. benefits are also required to see a veterans counselor prior to registration.

Students planning to transfer to a four-year college and those planning to graduate from Citrus College are strongly encouraged to see a counselor well in advance of registration.

It is important for all students to have a Student Educational Plan (SEP) while attending Citrus College. Counselors assist students in developing an educational plan that reflects their goals. As students progress, the plan can be changed as frequently as their goals change. When these changes occur, the student should meet with a counselor to update his/her SEP.

Counseling Follow-up
Follow-up services are designed to evaluate and track the student’s academic progress. Special services are provided to students on academic and/or progress probation, students in basic skills courses, and students who are undecided about their educational goal. Counselors also give referrals to appropriate programs and services, both on and off campus.

Prerequisites, Co Requisites and Recommendations
Citrus College students receive information about courses that require specific knowledge or skills needed to be successful in that course. This information is presented as a requisite statement under the title of the course. The definitions of these statements are:

• Prerequisite - A course that a student is required to complete in order to demonstrate current readiness for enrollment in a course or program. (Example: SPAN 101 must be completed before taking SPAN 102.)

• Co Requisite - A course that a student is required to take at the same time with another course. (Example: Students taking AUTO 109 must also take AUTO 112.)

• Recommendation - A skill or course that is strongly suggested before enrollment in a course, but is not required.

Verification of Prerequisites
Prior to registration, students are required to provide verification of how skill or course prerequisites have been satisfied prior to registration. Students unable to verify how a prerequisite has been satisfied will not be allowed to enroll in those courses. Transcripts from other colleges may be used to verify course prerequisites. Skills prerequisites must be verified through the Citrus College assessment process or the assessment process from another college.

Challenging Prerequisites
Students may challenge a course prerequisite or corequisite if they meet one of the following conditions:
1) Demonstrated knowledge or the ability to succeed in the course without the prerequisite, or
2) The possibility of undue delay in attaining the goals established in an educational plan because the prerequisite or corequisite course has not been made reasonably available, or
3) Belief that the prerequisite is discriminatory or is being applied in a discriminatory manner, or
4) Belief that the prerequisite was established in violation of regulations and/or the established district-approved policy and procedures.

**Challenging Prerequisites**

Students may challenge a course prerequisite or corequisite if they meet one of the following conditions:

1) Demonstrated knowledge or the ability to succeed in the course without the prerequisite, or
2) The possibility of undue delay in attaining the goals established in an educational plan because the prerequisite or corequisite course has not been made reasonably available, or
3) Belief that the prerequisite is discriminatory or is being applied in a discriminatory manner, or
4) Belief that the prerequisite was established in violation of regulations and/or the established district-approved policy and procedures.

A Prerequisite Challenge Form can be obtained from the registrar in the Admissions & Records Office. The completed form must be presented to the registrar two weeks prior to the beginning of semester in which it is to be considered.

**NonCredit Counseling and Matriculation**

The Noncredit Counseling Department assists students and members of the community who are building the basic skills needed for personal and professional growth. Its staff provides the guidance students need to establish their goals and effectively plan their educational experience.

Reasons to enroll in noncredit classes include:

- Test Preparation: Assessment, GED, California High School Exit Exam (CAHSEE)
- Strengthening skills required for employment and college success
- Developing learning tools for college success
- Continued learning support for students enrolled in credit classes

An orientation is required prior to enrollment in the Basic Skills Lab, English as a Second Language (ESL), short-term vocational programs and selected counseling services. Students are encouraged to make an orientation/intake appointment to learn more about:

- Academic, personal and career counseling
- Career assessment and guidance
- Preparation for the college assessment test (Accuplacer)
- Student Educational Plans (SEP)
- Preparation for exams such as the GED or CAHSEE
- Orientation with personalized enrollment assistance
- Transition assistance to degree/certificate of achievement programs
- Support and parenting skills groups
- Academic, career and personal enrichment workshops
Información en Español

**Misión**
Citrus College ofrece instrucción de alta calidad que capacita a los estudiantes a competir globalmente y a contribuir al crecimiento de la economía de nuestra sociedad de hoy día. Estamos comprometidos a promover una comunidad educativa que sea diversa y un ambiente de aprendizaje que sea sensitivo a la cultura y que refuerce el éxito de los estudiantes en su búsqueda de excelencia académica, oportunidades económicas y superación personal.

**Cómo Inscribirse**
El proceso de solicitar admisión a Citrus College comienza cuando el estudiante solicitante somete una solicitud en línea a través de nuestro sitio de internet en www.wingspan.citruscollege.edu. No hay cobro alguno para someter la solicitud y la misma puede ser sometida en cualquier momento. Computadoras con acceso al sitio de internet del colegio también están disponibles en la oficina de Admisiones y Récords, así como en otras áreas del campus.

Una vez que la solicitud sea completada y sometida en línea, el estudiante nuevo recibirá un correo electrónico o una carta por correo postal de “Bienvenida a Citrus College” que incluye un número de usuario de estudiante y una identificación personal referido como un número PIN que le permitirán al estudiante inscribirse en clases, pagar matrícula y cuotas y oficialmente inscribirse en Citrus College.

**Exención para los No-Residentes de California (AB 540)**
Cualquier estudiante, que no sea extranjero inmigrante, y que cumple con todos los requisitos, deberá estar exento a pagar la matrícula para estudiantes no-residentes.

- El estudiante debe de haber asistido una escuela preparatoria ‘high school’ (privada o pública) de California por tres o más años.
- El estudiante debe de haberse graduado de una escuela preparatorio de California ‘high school’ o el equivalente antes del comienzo del semestre; por ejemplo, haber pasado el examen GED, examen de Rendimiento de High School de California o el examen de haber completado una High School de California (Exit Exam).

Los estudiantes que son elegibles para una exención AB 540 deben completar y someter la Petición para una Exención de la Matrículación como No-Residente de California junto con los comprobantes requeridos que indiquen que ha terminado la preparatoria o ‘high school’.

*Los estudiantes que tienen visas como no-inmigrantes (por ejemplo, de Turista (B-1, B-2), Estudiante Extranjero (F-1), NAFTA (TN & TD) o de Estudiante de Inter-cambio (J), ECT.) no son elegibles para recibir esta exención.

Los estudiantes que se inscriben en clases y que tienen pendiente ser aprobados para calificar para el semestre son responsables de pagar las cuotas requeridas. Los estudiantes que son aprobados basado en los documentos sometidos, recibirán un reembolso de la cuota como no residente que han pagado.

Para mayor información visite www.citruscollege.edu/ar
No residentes
Los estudiantes que no cumplen con los requisitos de residentes de California tendrán que pagar matrícula de no residentes, además de cuotas de inscripción y otros cobros. Para mayor información, visite https://wingspan.citruscollege.edu

Cuotas y Gastos 2009-2010
Las cuotas de inscripción son fijadas por la Legislatura Estatal de California y están sujetas a cambios.

| Cuota de Inscripción: | $26 por unidad |
| Matrícula para Estudiantes Extranjeros*: | $220 por unidad |
| Matrícula para No Residentes*: | $189 por unidad |
| Cuotas de Servicios en el Campus |
| Cuota de Servicios de Salud: | $17 |
| Estudiantes BOGW: | $12 |
| Cuota de Estacionamiento: |
| Otoño y Primavera | $30 |
| Invierno y Verano | $15 |
| Cuota de Servicios Estudiantiles |
| Otoño y Primavera | $14 |
| Invierno y Verano | $9 |

*Estudiantes Extranjeros y No Residentes son requeridos a pagar cuotas de inscripción y de matrícula por cada unidad.

Se le puede cobrar al estudiante una cuota por materiales de aprendizaje o por otros materiales que se requieren en una clases/s específicas. Estos materiales incluyen pero no se limitan a libros de materias, herramientas, equipo y vestimenta especial.

Ayuda Financiera
La Oficina de Ayuda Financiera es responsable por iniciar, monitorear y entregar fondos federales y estatales. Estos programas se ofrecen a los estudiantes a través de subsidios, becas, empleos y préstamos.

Los programas de ayuda financiera federales y estatales están diseñados para asistir a los estudiantes de Citrus College, especialmente aquellos estudiantes de familias de bajos a medios ingresos. La intención del programa es asistir a estudiantes que están buscando obtener una educación superior y que no hayan obtenido aún su primer título. Los estudiantes deben solicitar la ayuda financiera tan pronto les sea posible después del 1ro de enero de cada año. Por favor no esperar hasta el último momento para solicitarla. Muchos estudiantes no se dan cuenta que toma tiempo el proceso de prepararse para el colegio. Es importante que ambos, el estudiante y la Oficina de Ayuda Financiera cuenten con suficiente tiempo para prepararse y entregar la solicitud con bastantes tiempo de anticipación.

Para poder solicitar ayuda financiera, se debe cumplir con los siguientes requisitos:

1. Ciudadanía: Los solicitantes de ayuda financiera deben ser ciudadanos estadounidenses, ciudadanos nacionalizados, o no ciudadanos elegibles.
   a. No ciudadanos elegibles incluyen: residentes con residencia permanente de EE.UU. con Tarjeta I-551; Residentes con Residencia Condicional con Tarjeta I-551; Solicitantes con un Récord de Arribo-Partida (I-94) con una de las siguientes designaciones: "Refugiado," "Asilo Concedido," "Libertad Condicional/Parole," o "Entrada como Cuban/Haití."
   b. Un estudiante que se encuentre en Estados Unidos con visa F1 ó F2, J1 ó J2 visa de visitante de inter cambio, o una visa de serie G, no es elegible para recibir Ayuda Financiera Federal, pero pudiera ser elegible para recibir ayuda financiera estatal o de instituciones.

2. Los varones que nacieron después de la fecha 12/31/1959 deben inscribirse con el Servicio Selectivo. Llame al 1-847-688-6888 o visite el sitio: www.sss.gov para información sobre las guías de inscripción y para verificar la inscripción.

3. Tener un diploma de ‘high school’, un GED, o haber completado satisfactoriamente la prueba ‘Ability To Benefit (ATB) Test’.

4. Los solicitantes para la Ayuda Financiera deben de ser estudiantes que aún no se gradúan y que están inscritos para completar un certificado de constancia, obtener un título o participar en un programa de transferencia.

5. Los estudiantes no deben de tener adeudos con ninguna institución que les haya dado un subsidio; ni tampoco un incumplimiento con un préstamo Stafford o Perkins.

6. Mantener un Progreso Académico Satisfactorio (SAP) tal y como lo define la Oficina de Ayuda Financiera.

7. Demostrar una necesidad financiera, que es determinada por la Oficina de Ayuda Financiera y basada en el costo de asistencia al colegio (COA) menos la Contribución Esperada de la Familia (EFC), tal y como lo define la metodología federal.
Para Estudiantes que Cumplen Todos los Requisitos

Una vez que la FAFSA ha sido completada satisfactoriamente, favor de hacer el contacto con la Ayuda Financiera para poder terminar el proceso de solicitud para la Ayuda Financiera. La Oficina de Ayuda Financiera le pudiera pedir lo siguiente:
- Declaraciones de impuestos del IRS junto con los formularios de pago W-2
- Comprobantes de ingresos libres de impuestos
- Tarjeta(s) del Seguro Social
- Cualquier otra información relacionada con ingresos financieros

Para determinar la elegibilidad de la ayuda financiera, se toman en cuenta varios factores, tales como:
- Ingreso Familiar que paga Impuestos y Libre de Impuestos
- Inversión(es)
- Impuestos Pagados
- Tamaño de la Familia
- Número de miembros en la familia, que asisten al colegio

Cómo Solicitar Ayuda Financiera/Entrega de la FAFSA
Un estudiante puede solicitar ayuda financiera a través del internet. Favor de ir a www.fafsa.ed.gov. Se requiere que el estudiante y el padre/madre del estudiante den pendiente ingrese cada uno su número de PIN (clave de identificación, PIN). Visite www.pin.ed.gov para solicitar un número PIN.

El personal de la Oficina de Ayuda Financiera está disponible para reunirse con los estudiantes y ayudarles a llenar la solicitud FAFSA en línea. La Oficina de Ayuda Financiera cuenta con un laboratorio de computación que está disponible para los estudiantes.

Para mayor información, favor de comunicarse con la Oficina de Ayuda Financiera al 626-914-8592

Evaluación y Orientación Qué es Evaluación?
Todos los estudiantes nuevos, que no están exentos de matriculación tienen que participar en el proceso de evaluación, orientación y consejería. Este proceso está diseñado para asistir a que los estudiantes puedan lograr sus metas educativas y de carreras.

El proceso de evaluación en Citrus College ofrece información sobre las habilidades en lenguaje, lectura, matemáticas y otras materias necesarias para que la experiencia en el colegio sea exitosa. Se hace uso de la información que da el estudiante, y de los archivos escolares de la ‘high school’ o de otros colegios. Otros factores que se utilizan para determinar si la persona está lista para asistir al colegio pueden ser una evaluación de los hábitos de estudio, las metas de los estudiantes, aspiraciones profesionales junto con los resultados de la prueba de colocación.

La información de la evaluación ayuda al consejero a desarrollar un programa educativo para el estudiante que sea a largo plazo para que logre cumplir con su meta profesional.

El programa de evaluación incluye:
- Orientación sobre la evaluación y para nuevos estudiantes en Citrus College
- Evaluación en Citrus y una orientación por Internet.

Este programa de evaluación tiene como intención ofrecerle a los estudiantes el mejor programa de asesoría y consejería académica posible. El proceso de evaluación y de orientación se programa durante cada semestre y durante el verano. Para mayor información, favor de llamar al Centro de Pruebas al (626) 857-4035.

¿Quién Debe Tomar la Prueba de Colocación?
Todos los estudiantes nuevos que se inscriban en cinco o más unidades y que planean obtener un título de asociado, un certificado de constancia o de algún entrenamiento o capacitación deben tomar una evaluación de inglés y del nivel de matemáticas. Adicionalmente, los estudiantes nuevos que planean inscribirse en clases de inglés, matemáticas o clases de lectura, deben participar en el proceso de evaluación.

Los estudiantes con discapacidades que requieren tomar la prueba y necesitan hacer arreglos especiales, deben de llamar a la Oficina de DSP&S al (626) 914-8675. Servicios para sordomudos están disponible las 24 horas del día, (626) 914-8674 TDD.

¿Qué es una Orientación?
Orientación, tal y como lo requiere el reglamento de matriculación, ofrece a los estudiantes nuevos información necesaria para que puedan tener una tran-
sición exitosa a Citrus College. Esta información incluye programas de colegios, servicios estudiantiles, inscripciones, procedimientos, guías para pruebas para que el estudiante tenga éxito y mucho más.

El programa de evaluación/orientación del colegio puede completarse de la siguiente manera:
1) Completar la evaluación para nuevos estudiantes, llamar al 626-857-4035 para hacer una cita
2) Tomar la orientación vía internet en www.citruscollege.edu/videos
3) Inscribirse en una de tres clases de consejería: COUN 159 Planificación del Colegio, COUN 159 En Ruta al Exito, o COUN 160 Estrategias para el Colegio (Estrategies for College)

EOP&S/CARE
Programas & Servicios de Oportunidades /Agencias de Recursos Educativos (EOP&S) ayuda a los estudiantes del colegio comunitario que vienen de familias en desventaja económica y educativa para alcanzar su meta académica y de carrera. Los servicios de apoyo consisten de información y asistencia en varias áreas como admisiones, inscripción, ayuda financiera, evaluación y ayuda para seleccionar un título o una carrera.

EOP&S también ofrece:
• Servicios de apoyo tal como inscripción con prioridad, asistencia para comprar libros, pruebas gratis sobre carreras, mentores y talleres de superación.
• Eventos de promoción en 'high schools', organizaciones comunitarias y en agencias.
• Mentores Estudiantes, diseñados para que inspiren a otros estudiantes y les ayuden a permanecer en el colegio.
• Consejeros y asesores que ofrecen asesoría académica y orientación personal.
• Referencias a otros servicios disponibles en el campus y en la comunidad
• Programa de seis semanas durante el verano que se llama 'Summer Bridge' en donde estudiantes de 'high school' y estudiante futuros del colegio asisten a clases, aprenden estrategias para triunfar en el colegio y participan en paseos.

El Programa CARE, establecido por la Legislatura de California (AB 3103), asiste a los estudiantes de EOP&S que son padres solteros y que reciben asistencia pública y que tienen por lo menos un hijo/a menor de 14 años.

A través de CARE, los estudiantes reciben apoyo adicional para su educación, tal como asesoría adicional, consejería y eventos para que interactúen con otros padres solteros de bajos recursos. Adicionalmente, CARE ofrece subsidios y gastos para cubrir guardería, transporte, compra de libros y materiales didácticos para asegurar que los estudiantes permanezcan en el colegio, que sean Persistentes, y que las tasas de transferencia sean buenas entre estos estudiantes, durante el curso de sus estudios para lograr sus objetivos. La meta es que los estudiantes puedan obtener su certificado de capacitación, de constancia, licencia, obtener un título de asociado o transferirse a una universidad o colegio de cuatro años de estudios.

ESL de crédito
Clases de ESL de crédito ayudan a los estudiantes de nivel intermedio bajo a niveles avanzados de inglés para prepararse para tomar clases académicas en Citrus College. Estas clases se enfocan en desarrollar las habilidades en lectura, gramática y comunicación oral. También preparan a los estudiantes para que puedan entrar en programas de certificación o de título o para transferirse a un título universitario. Hay cinco niveles de ESL con varias clases en cada nivel. Usted tendrá que tomar una prueba de colocación para clases de ESL, que determinará el nivel en el que se encuentra. Para más información, favor de comunicarse con Connie Tucker (626) 914-8567

ESL de no-crédito
Clases de ESL de no-crédito son para estudiantes principiantes o intermedios que desean aprender inglés para enriquecer su vida personal. Estas clases ayudan a los estudiantes a mejorar su comunicación básica, lectura y habilidades para estudiar. Las clases de no-crédito se pueden tomar más de una vez. Un gran número de estudiantes empiezan las clases de ESL en clases de no-crédito y más tarde se transfieren a clases de crédito de ESL. La clase 'Academic Bridge' les ayuda a los estudiantes a prepararse para tomar clases de crédito de ESL. Haga una cita con su Consejero de clases de No-Crédito para determinar su nivel. Llame al (626) 852-8023.

Lista de personal que habla español:
Admisiones y los Registros
Julie Miranda
(626) 914-8510

Carrera y la Transferencia Centrales
Raul Sanchez
(626) 857-4064
Consejería Académica
Claudia Castillo
(626) 914-8537
Laura Villegas
(626) 857-4093

Ayuda Financiera
(626) 914-8592
Diana Chavez

Académica para No Crédito y Matriculación
(626) 914-8592
Linda Ruiz
Lorena Velazquez

Programas Educativos de Oportunidades y Servicios (EOP&S)
Joanne Hinojosa
(626) 914-8558
Sylvia Pinedo
(626) 914-8555

Servicios Fiscals
Rosalinda Buchwald
(626) 914-8897
What are the Rules?
Academic Policies and Requirements, Attendance and Enrollment

**Attendance Policy**
Students are expected to attend all regularly scheduled class meetings, including other required activities such as labs, field trips, athletic meets, and performances. It is the instructor's responsibility to notify the students of all such required activities early enough in the semester to enable students to attend all meetings.

**Absences**
It is the student's responsibility to speak to the instructor regarding their absence and arrange to make up the coursework missed. Instructors may allow make up work for excused absences for reasons that include:
- Illness, bereavement, personal emergency or medical appointment
- College-approved field trips, performances, or intercollegiate events

**Instructor Drop**
An instructor may drop a student who has missed three class meetings. This drop can be made up to the midpoint of a semester or session. After the midpoint, a student may not be dropped and the instructor must assign a grade.

**Auditing Courses**
Auditing classes is not permitted.

**Withdrawal from the College**
Any student who withdraws from Citrus College at any time after registration must be formally withdrawn. Official withdrawal forms are available from the Attendance and Records Office.
- Students in good standing will be honorably withdrawn upon application.
- Students who stop attending class without a formal withdrawal risk receiving failing grades.
- Students who withdraw from the college may lose their "continuous enrollment" status for graduation purposes and be subject to any new graduation requirements when they re-enroll.

All books and equipment belonging to Citrus College must be returned or paid for before an honorable withdrawal is granted.

**Credits, Grades and Academic Status**
All credit courses listed in the description of courses section have been reviewed by the Citrus College Curriculum Committee and approved by the Board of Trustees in accordance with California Education Code requirements.

**Units**
A unit is the amount of college credit earned by satisfactory completion of a course taken for one semester. A unit of credit may be earned by:
- One hour per week of lecture or recitation
- Three hours in a laboratory or other exercises not requiring outside preparation.

**Freshman:** A student with fewer than 30 units.

**Sophomore:** A student with 30 or more units.

**Grades**
Grade reports will be available online at https://wingspan.citruscollege.edu at the close of each semester and session. Contact the Admissions and Records Office for more information.

**Academic Record Symbols and Grade Points**
**Evaluative Grades**
Evaluative grades are assigned grade point values, which are used in calculating a student's GPA. An instructor's determination of a student's grade is final, if no evidence of mistakes, fraud, bad faith or incompetence has been determined.

<table>
<thead>
<tr>
<th>Symbol Definition</th>
<th>Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Excellent</td>
<td>4</td>
</tr>
<tr>
<td>B Good</td>
<td>3</td>
</tr>
<tr>
<td>C Satisfactory</td>
<td>2</td>
</tr>
<tr>
<td>D Less than satisfactory</td>
<td>1</td>
</tr>
<tr>
<td>F Failing</td>
<td>0</td>
</tr>
<tr>
<td>FW Failing/Withdrawal</td>
<td>0</td>
</tr>
<tr>
<td>P Passing</td>
<td></td>
</tr>
<tr>
<td>NP No Pass</td>
<td></td>
</tr>
</tbody>
</table>

Indicates that a student ceased participating in a course after the drop date without achieving a final passing grade.

At least satisfactory, units awarded, not counted in grade point average.

Less than satisfactory, or failing, units not counted in grade point average.
Minimum Grade Requirements
A C or better is required in courses that are prerequisites to another courses. Other instances in which a C or better is required include courses taken to:
• Satisfy competency for degree or transfer
• Fulfill major requirements for the associate degree or transfer
• Complete requirements for a vocational certificate of achievement
• Meet statutory regulations (usually part of a transfer pattern)
• Complete courses within IGETC (Intersegmental General Education Transfer Curriculum) categories

A D is the minimum acceptable grade in electives and other limited categories of coursework.

Non-Evaluative Grades
Non-evaluative grades are not assigned a grade point value and therefore are not used in calculating GPA. Credits are not issued when the following non-evaluative grades are assigned.

Incomplete: I
Incomplete academic work for unforeseeable, emergency and justifiable reasons may result in the I symbol being entered in a student's record at the end of the term. The condition for removal of the I, and the grade to be assigned at the time of its removal, is stated by the instructor in a written record.

A copy of this record is given to the student and the original is filed in the Admissions and Records Office until the incomplete is made up or the time limit has passed. A final grade is assigned when the required work has been completed and evaluated, or when the time limit for completing the work has passed.

An incomplete grade may be made up within one year following the end of the term in which it was assigned. Incomplete contracts are initiated by the instructor of record and must be signed by the student. Contracts are available in the Admissions & Records Office.

Withdrawal: W
W denotes withdrawal from a class or classes when a student withdraws at mid-semester or mid-session. A notation is not made on the academic record of a student who withdraws earlier. Contact the Admissions and Records Office for deadline dates.

Although W is not used in calculating grade point average, excessive withdrawals are used as factors in calculating academic standing and may result in a student being placed on progress probation or dismissal.

Withdrawal from a class or classes due to extenuating circumstances—verified cases of accident, illness or other circumstances beyond the control of the student—may be authorized after the withdrawal deadline upon petition by the student.

Military Withdrawal: MW
MW is assigned for students who are active or reserve members of the military, who receive orders that compel a withdrawal from courses. Upon verification of such orders, MW will be assigned at any time after the period during which no notation is made for withdrawals. A Military Withdrawal shall not be counted in progress probation and dismissal calculations.

In Progress: IP
IP is used only in those courses that extend beyond the normal end of an academic term. It indicates that work is "in progress," and that a grade will be assigned upon completion of the work. When the appropriate evaluative grade and unit credit is assigned, it will appear on the student's record for the term in which the required work of the course is completed.

Report Delayed: RD
RD is assigned by the Admissions and Records Office when there is a delay in reporting the grade of a student, due to circumstances beyond the control of the student. It is a temporary notation and is replaced by a permanent symbol as soon as possible.

Evaluating Academic Progress

President's List
To be eligible for the President's List, a student must have a 3.8 GPA in at least 6 units completed in the semester they are being recognized, and a minimum 24 units completed at Citrus College. Non-degree applicable courses are not included.

Dean's List
Dean's List students must have a 3.5 GPA in at least 6 units completed in the semester they are being recognized, and a minimum of 24 units completed at Citrus College. Non-degree applicable courses are not included.

Notice of Satisfactory/ Unsatisfactory Work
It is the instructor's responsibility to provide at least two evaluations of a student's progress, such as exams and/or papers, before the mid-semester or mid-session withdrawal deadline.

Probation, Dismissal and Reinstatement
At the end of each semester or session, the academic standing of all graded students is determined on degree applicable course work. Probation and dismissal status is based on the following:
1a. Placement on Academic Probation
A student who has attempted at least 12 semester units of Citrus College credit is placed on academic probation when the earned grade point average in all units attempted at Citrus College is less than 2.0.

1b. Placement on Progress Probation
A student who has enrolled in at least 12 semester units of Citrus College credit shall be placed on progress probation when 50% or more of all enrolled units have entries of W, I, and NC. A student who has been placed on probation will be notified by mail of his/her probationary status; this notification will also request that the student confer with a counselor regarding the probationary status.

2a. Removal from Academic Probation
A student on academic probation shall be removed from probation when his/her Citrus College cumulative grade point average is 2.0 or higher.

2b. Removal from Progress Probation
Students on progress probation shall be removed from probation when their percentage of all Citrus College enrolled units with recorded entries of W, I, and NC drops below fifty percent (50%).

3. Dismissal
At the end of spring semester, students on probation shall be dismissed when one of the following conditions applies:

3a. The earned grade point average in all units attempted at Citrus College is less than 2.0 in two consecutive semesters of enrollment;

3b. The number of units for which W, I, and NC entries have been assigned has warranted probationary status for two consecutive semesters of enrollment.

Students will be notified by mail of their dismissal from Citrus College and will be urged to meet with a college counselor during the semester prior to reinstatement. Students may apply for reinstatement after one regular semester of absence from Citrus College.

A student who has been dismissed from Citrus College may appeal the dismissal to the Counseling and Advisement Center. Circumstances that shall warrant exception to the standards for dismissal include error, illness, or other circumstances beyond the control of the student.

4. Reinstatement after Dismissal
Students who have been dismissed from Citrus College may file a Petition for Reinstatement with the Counseling and Advisement Center after one semester has elapsed since the semester of dismissal.

Petitions for reinstatement must be supported with verification of remedial work or evidence of readiness to do successful college work. Students are required to meet with a counselor prior to registration each semester until they are removed from probationary status.

A reinstated student must earn a grade point average of at least 2.0 and complete more than 50% of all units attempted each semester after reinstatement. This is mandatory until the student has achieved a cumulative grade point average of at least 2.0 and the number of W, I and NC units drops below 50% of all attempted units at Citrus College. A reinstated student who fails to meet these criteria will be dismissed again.

These standards also apply as the minimum standards of satisfactory progress for students who are recipients of federal and state funds administered by the college.

Program Changes: Adding and Dropping Classes
Students wishing to make adjustments in their program (add or drop a class) may do so according to the add/drop dates issued by the Admission and Records Office.

Repeated Courses
A student may enroll in a course and receive a satisfactory grade of A, B, C, or CR only once, unless the course description in the college catalog states that the course may be repeated for credit.

A student may repeat a course only once when a D, F, NC, or W has been earned. A student must file a petition and receive approval prior to attempting a course for a third time. The petition will be considered if the withdrawal or substandard grade was the result of extenuating circumstances. In this case, extenuating circumstances are defined as verified cases of accident, illness or other circumstances beyond the control of the student.

When a D, F, or NC is repeated, the units and grade points of the higher grade will be used in computing the student's grade point average at Citrus Col-
The permanent academic record shall be annotated in such a manner that all work remains legible.

A student may repeat a course one time at another accredited college to alleviate a final grade of D, F, or NC earned at Citrus College. The student must file a petition and verify the grade with an official college transcript. The units and grade points of the higher grade shall be used in computing the student's grade point average at Citrus College. Then, the permanent academic record shall be annotated in such a manner that all work remains legible.

A student may petition to repeat a course one time when it has been determined by the college that there has been a significant lapse of time since the student previously took the course. The units and grade points of the first enrollment in the course will be used in computing the student's grade point average at Citrus College and the permanent academic record shall be annotated.

Pass/No Pass Courses
Citrus College students may be evaluated on a Pass/No Pass grading basis in courses approved by the Curriculum Committee. Pass/No Pass course options are designated in the Description of Courses section of this catalog by the symbol, Pass/No Pass. A student must declare the option by no later than Friday of the third week of a semester for a full semester class (or 17 percent of the length of a class of any other term length) by filing a Pass/No Pass Petition in the Admissions and Records Office.

Standards for Pass/No Pass Courses
- A passing P grade is defined as C or better. Units are awarded and grade points are not assigned, and the grade is not used to compute grade point average.
- A Pass/No Pass grade is defined as less than satisfactory (D or F). Units are not earned and grades are not used to compute grade point average.

Pass/No Pass Units Allowed
- 12 maximum, during 4 or more semesters
- Limit of one Pass/No Pass option per semester or session
- Courses where all students are evaluated on a Pass/No Pass grading basis are excluded from the 12-unit limitation (see course descriptions for details)

Credit by Examination
A student in satisfactory scholastic standing who has completed at least 12 units at Citrus College may petition to receive Credit by Examination for coursework offered by the college and/or the Advanced Placement examinations of the College Entrance Examination Board, College Level Examination Program, or the International Baccalaureate.

Credit by Examination/Locally Administered Examination
1. This examination includes written, oral, or skill tests—or a combination of all three—as determined appropriate by the department administering the examination.

2. Credit by Examination shall be granted only for those courses that have been designated by a department as eligible; department approval is required.

3. A student may attempt Credit by Examination only once per course.

4. The student may not be enrolled in the same course or a more advanced course beyond the sixth week of classes, or equivalent.

5. A student may not petition for Credit by Examination of a course for which the student has previously received an evaluative symbol grade (A, B, C, D, F, P, and NP).

6. The maximum number of credits allowed for coursework taken by examination is 30 units.

7. Grades received because of courses taken for Credit by Examination shall be recorded as Pass/No Pass grades on the permanent transcript record and shall be designated as credit earned by examination.

8. Credit earned by examination may not be counted toward eligibility in any activity program and may not be used to satisfy the 12 units in residence required for the associate degree.

Credit by Examination-Externally Administered Examination
1. Advanced Placement
   The district will grant three to ten (3 – 10) units of elective credit for an examination score of three, four or five (3 – 5) in subjects of the Advanced Placement (AP) program of the College Entrance Examination Board. Subject credit, rather than elective credit, may be granted upon recommendation of the department.

2. International Baccalaureate
   The District will grant three to four (3-4) units of elective
credit for an examination score of five, six or seven (5, 6 or 7), in the subjects of the International Baccalaureate (IB) Higher Level exams. Subject credit rather than elective credit may be granted upon recommendation of the department.

3. Credit through the College Level Examination Program
The district will grant up to six (6) units elective credit for a score of 50 or above in a General Examination of the College Level Examination Program (CLEP) of the College Entrance Examination Board. Subject credit, rather than elective credit, maybe granted upon recommendation of the department. Students will receive appropriate credit for CLEP examinations, for which faculty have determined equivalent to Citrus courses. Students should be aware of the following:
1. University of California does not accept CLEP Examinations.
2. The California State University is only obligated to accept the following CLEP Examinations:
   • College Algebra/Trigonometry (score 49) applicable toward CSU GE-Breadth Area B4.
   • Calculus with Elementary Functions (score 51) applicable toward CSU GE Breadth Area B4.
   • General Chemistry (score 48) applicable toward CSU-GE Breadth Area B1.
3. Students should be aware that acceptance of CLEP at the various campuses of the CSU varies. CLEP Examinations get re-evaluated at transfer universities.
4. CLEP is evaluated on a credit basis only; no letter grades are assigned.

Credit for Courses Taken at Other Colleges
Academic credits earned at other regionally accredited institutions are evaluated at the time of a student’s initial enrollment at Citrus. It is therefore important that the student request official transcripts from all colleges previously attended. These transcripts should be sent to the Admissions & Records Office.

Credit for DANTES (Defense Activity for Non-Traditional Education Support (DANTES/DSST)
At the time of publication of this catalog, DANTES/DSST Examinations are under review.

Credit for International Baccalaureate
A student must be enrolled at Citrus College to receive course credit for the International Baccalaureate diploma or certificates.

At the time of catalog publication, policy for acceptance of the International Baccalaureate diploma or certificates is under review.

1. The college will grant 3 to 4 units of elective credit for an examination score of 5, 6 or 7, in the subjects covered on the International Baccalaureate (IB) Higher Level exams.
2. Subject credit rather than elective credit may be given upon recommendation of the department.
3. IB scores cannot be used for IGETC certification at this time.
4. The International Baccalaureate is re-evaluated by the UC, CSU, independent universities, and other community colleges.

Any questions may be directed to the Articulation Office in ED 129.
Citrus College Credit for Advanced Placement (AP) Tests

Students may earn credit for College Entrance Examination Board (CEEB) Advanced Placement (AP) with tests with scores of 3, 4, or 5. AP credit can be used to meet IGETC, CSU GE and A.A. general education (GE) and/or major requirements.

Students must have the College Board send AP exam results to the Counseling Department for use on the A.A. or GE patterns.

Course credit and units granted at Citrus College may differ from course credit and units granted by a transfer institution.

The next two pages present the credit granted by Citrus College for Advanced Placement (AP) Tests. Please note the criteria for a Citrus College A.A. degree, the CSU GE requirements and the IGETC.

Students must file a Credit by Examination petition for evaluation at the Admissions and Records Office. To qualify for evaluation a student must complete twelve (12) units to be currently enrolled at Citrus College and have a cumulative GPA of a 2.0 or higher. The units earned from AP credit will not apply toward financial aid nor can they be used to satisfy the 12-unit residence requirement for graduation.

**AA:** Students should be aware that AP test credit is evaluated by corresponding it to an equivalent Citrus course, e.g. History 108. A student who receives AP credit and then takes the equivalent Citrus course will have the unit credit for such duplication deducted prior to being awarded the A.A. degree. Credit by Advanced Placement exam is noted and listed on a student’s transcript, with units assigned and no grade.

**CSU GE:** The Advanced Placement examinations may be incorporated into the certification of CSU General Education-Breadth requirements by any certifying institution. All CSU campuses will accept the minimum units shown and apply them toward fulfillment of the designated General Education-Breadth area if the examination is included as part of a full or subject-area certification. Please note that individual CSU campuses may choose to grant more units than those specified toward completion of General Education-Breadth requirements.

**IGETC:** AP exams must be used in the area indicated regardless of where the certifying CCC’s discipline is located.
## Advanced Placement (AP) Test Credit

<table>
<thead>
<tr>
<th>EXAM</th>
<th>CITRUS AA (MAJOR/GE)</th>
<th>CSU GE</th>
<th>CSU - UNITS EARNED TOWARD TRANSFER</th>
<th>IGETC</th>
<th>UC - UNITS EARNED TOWARD TRANSFER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>Art 101 3 semester units</td>
<td>Area C1 or C2 3 semester units</td>
<td>6 semester units</td>
<td>Area 3A or 3B 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Art (Studio)</td>
<td>Art 111 3 Units</td>
<td>N/A</td>
<td>3 semester units</td>
<td>N/A</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Biology</td>
<td>Biology 105 4 semester units</td>
<td>Area B2 and B3 4 semester units</td>
<td>6 semester units</td>
<td>Area 5B (with lab) 4 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>MATH 190 4 semester units</td>
<td>Area B4 3 semester units</td>
<td>3 semester units*</td>
<td>Area 2A 3 semester units</td>
<td>4 quarter/2.7 semester units**</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>MATH 191 4 semester units</td>
<td>Area B4 3 semester units</td>
<td>6 semester units*</td>
<td>Area 2A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td><strong>AP CALCULUS EXAM LIMITATIONS</strong></td>
<td></td>
<td></td>
<td>Only one exam may be used toward transfer</td>
<td></td>
<td>Maximum credit 8 quarter/5.3 semester units for both</td>
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<tr>
<td>Chemistry</td>
<td>Chemistry 110 5 semester units</td>
<td>Areas B1 and B3 4 semester units</td>
<td>6 semester units</td>
<td>Area 5A (with lab) 4 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Chinese Language &amp; Culture</td>
<td>No course equivalency</td>
<td>Area C2 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>CSIS 111 4 semester units*</td>
<td>N/A</td>
<td>3 semester units**</td>
<td>N/A</td>
<td>2 quarter/1.3 semester units***</td>
</tr>
<tr>
<td>Computer Science AB</td>
<td>No course equivalency</td>
<td>N/A</td>
<td>6 semester units**</td>
<td>N/A</td>
<td>4 quarter/2.7 semester units***</td>
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<tr>
<td><strong>AP CS EXAM LIMITATIONS</strong></td>
<td></td>
<td></td>
<td>Maximum 6 semester units for both</td>
<td></td>
<td>Maximum 4 quarter/2.7 semester units for both</td>
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<tr>
<td>Economics - Macroeconomics</td>
<td>Economics 101 3 semester units</td>
<td>Area D2 3 semester units</td>
<td>3 semester units</td>
<td>Area 4B 3 semester units</td>
<td>4 quarter/2.7 semester units</td>
</tr>
<tr>
<td>Economics - Microeconomics</td>
<td>Economics 102 3 semester units</td>
<td>Area D2 3 semester units</td>
<td>3 semester units</td>
<td>Area 4B 3 semester units</td>
<td>4 quarter/2.7 semester units</td>
</tr>
<tr>
<td>English - Language &amp; Composition</td>
<td>English 101 3 semester units</td>
<td>Area A2 3 semester units</td>
<td>6 semester units</td>
<td>Area 1A 3 semester units</td>
<td>8 quarter/5.3 semester units*</td>
</tr>
<tr>
<td>English - Literature &amp; Composition</td>
<td>English 101 or ENGL 102 3 semester units</td>
<td>Area A2 and C2 6 semester units</td>
<td>6 semester units</td>
<td>Area 1A or 3B 3 semester units</td>
<td>8 quarter units/5.3 semester units*</td>
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<tr>
<td><strong>AP ENGLISH EXAM LIMITATIONS</strong></td>
<td></td>
<td></td>
<td></td>
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<td>Maximum 8 quarter/5.3 semester units maximum for both</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>BIOL 145 3 semester units</td>
<td>Area B2 and B3 (if taken prior to Fall 2009) or Area B1 and B3 (regardless of when taken) 4 semester units</td>
<td>4 semester units</td>
<td>Area 5A (with lab) 3 semester units</td>
<td>4 quarter/2.7 semester units</td>
</tr>
<tr>
<td>French Language</td>
<td>French 101 &amp; 102 10 semester units</td>
<td>Area C2 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>French Literature</td>
<td>No course equivalency</td>
<td>Area C2 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
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</tbody>
</table>
# Advanced Placement (AP) Test Credit

<table>
<thead>
<tr>
<th>EXAM</th>
<th>CITRUS AA (MAJOR/GE)</th>
<th>CSU GE</th>
<th>CSU - UNITS EARNED TOWARD TRANSFER</th>
<th>IGETC</th>
<th>UC - UNITS EARNED TOWARD TRANSFER</th>
</tr>
</thead>
<tbody>
<tr>
<td>German Language</td>
<td>German 101 &amp; 102</td>
<td>Area C2</td>
<td>6 semester units</td>
<td>Area 3B</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td></td>
<td>10 semester units</td>
<td>3 semester units</td>
<td></td>
<td>6A 3</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>3 semester units</td>
<td></td>
</tr>
<tr>
<td>Government &amp; Politics -</td>
<td>Political Science 103</td>
<td>Area D6</td>
<td>3 semester units</td>
<td>Area 4H</td>
<td>4 quarter/2.7 semester units</td>
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<tr>
<td>Comparative</td>
<td>3 semester units</td>
<td>3 semester units</td>
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<tr>
<td>Government and Politics</td>
<td>Political Science 103</td>
<td>Area D6 and US 2*</td>
<td>3 semester units</td>
<td>Area 4H</td>
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<tr>
<td>U.S.</td>
<td>3 semester units</td>
<td>3 semester units</td>
<td></td>
<td>3 semester units</td>
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<td></td>
<td></td>
<td>3 semester units</td>
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<tr>
<td></td>
<td></td>
<td>*Does not fulfill AHI California Government requirement</td>
<td></td>
<td></td>
<td>Student can satisfy the AHI requirement after transfer</td>
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<td>History - European</td>
<td>No course equivalency</td>
<td>Area C2 or D6</td>
<td>6 semester units</td>
<td>Area 3B</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td></td>
<td>3 semester units</td>
<td>3 semester units</td>
<td></td>
<td>4F 3</td>
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<td>History - U.S.</td>
<td>History 108</td>
<td>Area C2 or D6</td>
<td>6 semester units</td>
<td>Area 3B</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td></td>
<td>3 semester units</td>
<td>3 semester units</td>
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<td>4F 3</td>
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<td></td>
<td>3 semester units</td>
<td></td>
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<td>History - World</td>
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<td>Area C2 or D6</td>
<td>6 semester units</td>
<td>Area 3B</td>
<td>8 quarter/5.3 semester units</td>
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<td></td>
<td>3 semester units</td>
<td>3 semester units</td>
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<td>4F 3</td>
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<td>Human Geography</td>
<td>Geography 102</td>
<td>Area D5</td>
<td>3 semester units</td>
<td>Area 4E</td>
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<td>3 semester units</td>
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<td>3 semester units</td>
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<td>Italian Language &amp;</td>
<td>No course equivalency</td>
<td>Area C2</td>
<td>6 semester units</td>
<td>Area 3B</td>
<td>8 quarter/5.3 semester units</td>
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<tr>
<td>Culture</td>
<td>3 semester units</td>
<td>3 semester units</td>
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<td>6A 3</td>
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<td></td>
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<td></td>
<td></td>
<td>3 semester units</td>
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<tr>
<td>Japanese Language &amp;</td>
<td>JAPN 101 &amp; 102</td>
<td>Area C2</td>
<td>6 semester units</td>
<td>Area 3B</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Culture</td>
<td>10 semester units</td>
<td>3 semester units</td>
<td></td>
<td>6A 3</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td>3 semester units</td>
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<tr>
<td>Latin - Vergil</td>
<td>No course equivalency</td>
<td>Area C2</td>
<td>3 semester units</td>
<td>Area 3B</td>
<td>4 quarter/2.7 semester units</td>
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<td></td>
<td>3 semester units</td>
<td>3 semester units</td>
<td></td>
<td>6A 3</td>
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<tr>
<td>Latin - Literature</td>
<td>No course equivalency</td>
<td>Area C2</td>
<td>6 semester units</td>
<td>Area 3B</td>
<td>4 quarter/2.7 semester units</td>
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<tr>
<td></td>
<td>3 semester units</td>
<td>3 semester units</td>
<td></td>
<td>6A 3</td>
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<td></td>
<td></td>
<td></td>
<td>3 semester units</td>
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<tr>
<td>Music Theory</td>
<td>MUS 101</td>
<td>Area C1 (if taken prior to Fall 2009)</td>
<td>6 semester units</td>
<td>N/A</td>
<td>8 quarter/5.3 semester units</td>
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<td></td>
<td>3 semester units</td>
<td>3 semester units</td>
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<tr>
<td>Physics B</td>
<td>Physics 110</td>
<td>B1 and B3</td>
<td>6 semester units*</td>
<td>Area 5A</td>
<td>8 quarter/5.3 semester units**</td>
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<tr>
<td></td>
<td>4 semester units</td>
<td>4 semester units*</td>
<td></td>
<td>(with lab)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>4 semester units</td>
<td></td>
</tr>
<tr>
<td>Physics C - Mechanics</td>
<td>Physics 110</td>
<td>Area B1 and B3</td>
<td>4 semester units*</td>
<td>Area 5A</td>
<td>4 quarter/2.7 semester units**</td>
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<tr>
<td></td>
<td>4 semester units</td>
<td>4 semester units*</td>
<td></td>
<td>(with lab)</td>
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<td>3 semester units</td>
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<tr>
<td>Physics C - Magnetism</td>
<td>Physics 110</td>
<td>Area B1 and B3</td>
<td>4 semester units*</td>
<td>Area 5A</td>
<td>4 quarter/2.7 semester units**</td>
</tr>
<tr>
<td></td>
<td>4 semester units</td>
<td>4 semester units*</td>
<td></td>
<td>(with lab)</td>
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<td></td>
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<td>3 semester units</td>
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<tr>
<td>AP PHYSICS EXAM LIMITATIONS</td>
<td></td>
<td>*Maximum 4 semester units toward GE and 6 semester units toward transfer</td>
<td></td>
<td></td>
<td>**Maximum 8 quarter/5.3 semester units for both</td>
</tr>
<tr>
<td>Psychology</td>
<td>Psychology 101</td>
<td>Area D9</td>
<td>3 semester units</td>
<td>Area 4I</td>
<td>4 quarter/2.7 semester units</td>
</tr>
<tr>
<td></td>
<td>3 semester units</td>
<td>3 semester units</td>
<td></td>
<td>3 semester units</td>
<td></td>
</tr>
<tr>
<td>Spanish Language</td>
<td>Spanish 101 &amp; 102</td>
<td>Area C2</td>
<td>6 semester units</td>
<td>Area 3B</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td></td>
<td>10 semester units</td>
<td>3 semester units</td>
<td></td>
<td>6A 3</td>
<td></td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>No course equivalency</td>
<td>Area C2</td>
<td>6 semester units</td>
<td>Area 3B</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td></td>
<td>3 semester units</td>
<td>3 semester units</td>
<td></td>
<td>6A 3</td>
<td></td>
</tr>
<tr>
<td>Statistics</td>
<td>MATH 165</td>
<td>Area B4</td>
<td>3 semester units</td>
<td>Area 2</td>
<td>4 quarter/2.7 semester units</td>
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<tr>
<td></td>
<td>3 semester units</td>
<td>3 semester units</td>
<td></td>
<td>3 semester units</td>
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</tr>
</tbody>
</table>
Academic Honors
Every fall and spring semester a press release is sent to the local media, on behalf of each member of the board of trustees, listing each student who earned a place on the President’s List and the Dean’s List. Academic honors criteria are presented in the Evaluating Academic Progress section.

Achievement Awards
Every year, Citrus College hosts its Annual Achievement Awards, a banquet and awards ceremony in honor of the college’s top students. Awards are given to the Man of the Year and the Woman of the Year; the Male Athlete of the Year and the Female Athlete of the Year; and the Citrus College Foundation Transfer Scholarship recipients. In addition, the Top 100 Students, who have demonstrated high academic performance in a given department, are announced and the college’s highest academic honor, the Keys of Knowledge, is awarded to the 10 students who have achieved Citrus’ highest overall academic performance.

Honors at Graduation
Citrus College graduates are recognized at Commencement for their permanent membership in the Alpha Gamma Sigma, Phi Theta Kappa and Psi Beta honor societies. In addition, students are recognized for earning Highest Honors, 3.80-4.00 GPA; High Honors, 3.60-3.79 GPA; and Honors, 3.30-3.59 GPA.

Honors Program
The Honors Program is for highly motivated students and provides a unique learning environment emphasizing scholastic excellence. The objective of the program is to better prepare students for transfer to a four-year institution and to complete a bachelor’s degree.

To enter the Honors Program, a student must have a minimum grade point average of 3.25 and be eligible for English 101.

Honors course work enhances a student’s ability to read, write, and think critically about current topics.

Other program benefits include:
• A variety of courses that meet UC, CSU and private university transfer requirements
• Enhanced transfer opportunities
• Interaction with highly motivated students
• Smaller class sizes
• Honors classes and program participation noted on Citrus College transcripts
• Scholarship opportunities

Honor Societies
Alpha Gamma Sigma
Alpha Gamma Sigma (AGS) is the honor scholarship society of the California Community Colleges. Its purpose is to encourage students to achieve the highest degree of development in scholastic, leadership, and community service endeavors while attending Citrus College.

AGS membership is renewed each semester and is based on GPA and number of units completed. After completing of three semesters of membership, students may be eligible for lifetime or permanent membership. For additional information, visit the AGS website www.ags-honor.org

Phi Theta Kappa
Phi Theta Kappa, an international honor society of two-year colleges, is the world’s largest and most prestigious honor society serving two-year colleges. Eligibility is based on GPA, number of units completed and membership fees.

The organization offers a myriad of opportunities for scholarships, intellectual enrichment and personal development through programs based on Phi Theta Kappa’s four hallmarks of Scholarship, Leadership, Service and Fellowship.

In recent years, Phi Theta Kappa members from Citrus College have achieved prominence in Phi Theta Kappa at the state level, through their rankings on the organization’s academic teams. For more information, visit www.ptk.org

Psi Beta
Psi Beta® is the psychology national honor society for community and junior colleges. Its mission is professional development of psychology students through promotion and recognition of excellence in scholarship, leadership, research, and community service.
Educational records consist of student files maintained by Admissions and Records, Counseling and Assessment, Financial Aid, and individual departments.

**Academic Renewal**

Past performance does not always accurately reflect a student's current ability. Therefore, Citrus College has a policy of academic renewal without course repetition so students may achieve their educational goals in spite of past poor performance.

**Criteria for Academic Renewal**

Students may request academic renewal as a means to achieve the educational goals of graduation from Citrus College, completion of certificate programs, and/or enable transfer to a four-year college or university. It is not applicable to students who wish to raise their grade point averages beyond these stated goals.

1. Only units taken at Citrus College may be disregarded, not units from other colleges.

2. A maximum of twenty four units may be alleviated from not more than three semesters of work.

3. A minimum of eighteen months must have elapsed since the end of the term of substandard work to be disregarded.

4. Since completion of the work to be disregarded, a minimum of 12 units must be completed at any accredited college or university, with a grade point average of a 3.0, or 24 units with at least a 2.5 GPA, or 36 units with at least a 2.0 GPA. In cases where all units since completion of work to be disregarded are “C” or better and the criteria set forth herein have been verified, the academic renewal petition will be granted and the Dean of Admissions and Records or his/her designee will make the proper annotation on the student’s permanent record. In cases where units below “C” level exist since completion of work to be disregarded, the petition will be referred to a Petitions Committee, made up of the Dean of Admissions and Records, the Dean of Counseling, two instructional faculty members and a counseling faculty member appointed by the Academic Senate. Evidence may be provided by the student to this Committee regarding the substandard grades to aid in the decision process. The decision of this Petitions Committee shall be final.

5. A student may only be granted academic renewal once.

6. Only substandard grades of “D”, “F”, “FW”, “NC”, or “NP” can be disregarded.

Academic renewal by Citrus College does not guarantee that other institutions will honor the elimination of units from consideration in the grade point average. It is a student’s responsibility to confirm with a transfer institution whether academic renewal will be accepted.

When academic renewal is approved, the student’s permanent academic record shall be annotated in such a manner that all work remains legible, insuring a true and complete academic history.

If the student has been granted academic renewal by another accredited college, such action shall be honored under this policy. However, the number of semester units allowed to be disregarded will be reduced by the number previously disregarded.

**Transcripts**

See Admission, Registration and Matriculation section

**Challenge of Educational Records**

See Student Grievances
Admissions and Records
The Admissions and Records Office, located on the first floor of the Administration Building, is the gateway to Citrus College. Here, applications are received and processed; registration is facilitated; and grades are verified.

Admissions and Records is the official custodian of student records, which include, but are not limited to, demographic information, academic history, and data mandated by the California Community College Chancellor’s Office and other government agencies.

Athletics: The Fighting Owls
Citrus College is a member of the Western State Conference and Southern California Football Alliance. Men’s intercollegiate sports include basketball, football, track and field, golf, cross country, swimming, water polo, soccer and baseball. Women’s intercollegiate sports include volleyball, soccer, swimming, golf, cross country, track and field, softball, basketball, and water polo.

In accordance with the Equity in Athletics Disclosure Act of 1994, for information concerning Citrus College intercollegiate athletic programs contact the Citrus College athletic director.

Athletic Eligibility
The California Commission on Athletics governs Citrus College’s athletic eligibility rules. To be eligible, a student athlete must:

1. Enroll in and pass a minimum of 12 units during participation in a sport. Nine of these units must be in academic courses.

2. Second-season student athletes must pass 24 semester units, 18 of which must be in academic courses, before participating in the same sport. A 2.0 GPA (cumulative) is required.

Student athletes who participated in intercollegiate athletics at another community college are required to:

1. Complete 12 units at Citrus College, nine of which must be in academic courses, prior to competing. The student must also complete and pass 24 semester units, 18 of which must be in academic classes.

    Or

    Complete 36-quarter units, 27 of which must be in academic classes, before being eligible for a second season of participation.

2. Student athletes transferring from an out-of-state community college must be eligible to participate in the upcoming season if they were to remain at that institution.

Student athletes who plan to transfer to a four-year college must follow specific transfer eligibility requirements. An athletic counselor is available to advise student athletes to ensure they follow the athletic academic plan, established by the Counseling and Advisement Center.

Bookstore
Students are required to purchase all books and supplies needed for their courses. To meet this need, the Owl Bookshop is owned and operated by the Associated Students of Citrus College as a service to students, faculty and staff with the purpose of making available educational materials and related items as economically as possible. Profits from its operation are used to fund staff activities, grants, scholarship, equipment purchases and campus improvements.

The Owl Bookshop accepts MasterCard, VISA, Discover, American Express, cash, ATM or personal check with valid California Driver’s License. Books and supplies may also be purchased online at www.owlbookshop.com.

The bookshop is located adjacent to the Campus Center; hours of operation and textbook information is listed at www.owlbookshop.com.

Refund Policy
Books purchased for any current semester session may be returned for refund as indicated on the refund policy received at the time of purchase. The books must be in the same condition as when originally purchased. Do not mar, damage or write in your books. A cash register receipt, proof of registration and student ID are required for all refunds.

Students are encouraged to sell their books back during finals through "BUY BACK." A used book company purchases books needed by the bookstore at a percentage of the new book price.
The company also buys other books with a current market value at a wholesale price. Proof of registration and student ID are required. The bookstore cannot guarantee the buy back of any book.

When purchasing books for a new semester or session, all students must present a copy of their class schedule. For further information please go to www.owlbookshop.com or call (626) 914-8620.

**CalWORKs**
California Work Opportunity and Responsibility for Kids (CalWORKs) is the state’s welfare-to-work program for families with children that are receiving Temporary aid for Needy Families (TANF). The Citrus College CalWORKs Program works in collaboration with the Department of Public Social Services to assist students with education, training, and job skills.

Citrus College provides short-term training programs to help CalWORKs students enhance their skills and/or develop new skills in order to find employment and become self-sufficient. CalWORKs students receive assistance with completion of county paperwork child care, work-study job placement, and referrals to community resources.

Additionally, CalWORKs students have the opportunity to establish education and career paths, which will help them as they transition off of cash aid.

**Campus Security**
Campus Security ensures the safety of students, faculty, staff and visitors while they are on campus property or involved in college-sponsored programs and activities, as well as protects district property and facilities.

Campus Security has the authority to enforce the Standards of Student Conduct.

According to the Education Code, Campus Security is the liaison with local law enforcement agencies in all criminal action cases. Therefore, in the event of an emergency individuals should promptly report the incident to Campus Security. It is Campus Security’s responsibility to contact police agencies.

Campus Security also provides a security escort for any member of the college community from dusk until dawn. These escorts are for safety, not convenience.

**Career/Transfer Center**
The Career/Transfer Center serves students’ career development and transfer needs.

Career counselors help students explore occupations and career fields using comprehensive printed and computerized resources. Through workshops as well as individual counseling, our staff can help you decide on a career field and prepare you for the job market. Career assessments are available to measure your values, interests, and skills. We can help you determine which occupations and work environments could be a good fit for you.

The center also has helpful resources for students who plan transfer to a university. We provide a variety of transfer support services and activities to help you make a seamless transition such as:

- Library of university catalogs
- Individual transfer advising by appointment
- University representative appointments
- University application assistance
- University fieldtrips

- Transfer awareness workshops
- College Fairs
- Transfer Admission Guaranteed to several UC schools (TAG)
- Articulation agreements with senior institutions

**Cashier**
See Fiscal Services/Cashier

**Center for Teacher Excellence (CFTE)**
Citrus College’s Center for Teacher Excellence helps students interested in teaching build an educational plan that best suits their interests and goals. Students receive academic advising and counseling; preparation for the CBEST and CSET examinations; financial aid and scholarship assistance; help with university transfer applications; networking opportunities through the student chapter of the California Teachers Association and more. Students who utilize the services offered by the Center for Teacher Excellence develop core competencies in communication; as well as creative, critical, and analytical thinking (problem solving and decision making).

**Child Development Center**
The Orfalea Family Children’s Center at Citrus College is a state licensed program providing child development services for children 2 1/2 to 5 years of age. It is accredited by the National Association for the Education of Young Children.

Services include:

- Early morning (6:30-8:00 a.m.) and late afternoon (4:00-6:30 p.m.) childcare
- Age-specific developmental and educational programs in enclosed classrooms
- Daily breakfast, lunch and afternoon snack
• Parent education workshops
• A lab setting that provides training opportunities for students and other professionals

Childcare fees are on a sliding scale based on family income and availability of funds. State funding assistance is available to eligible parents who need help in paying for services. For more information, call the Child Development Center at 914-8501.

**Computer Labs**
See Learning Center and Library and Research Resources sections.

**Counseling & Advisement Center**
The Counseling and Advisement Center is located on the first floor of the Administration Building. Professional counselors and educational advisers are available by appointment to assist students in educational, vocational and personal matters. Consistent use of counseling and advisement is necessary due to the frequent changes in requirements and recommendations for colleges and universities, as well as new developments in career opportunities.

Students are encouraged to meet with a counselor during their first semester to develop an education plan. This plan will list the courses needed to complete your educational goal. In addition, courses in college planning, career exploration, decision-making and communication are taught by counselors to assist students.

**Disabled Students Programs & Services (DSP&S)**
DSP&S provides support to students who have a verifiable disability that limits one or more major life activities. Students with a physical disability, visual impairment, auditory impairment, psychological disability, permanent or temporary health concerns or a learning disability can receive assistance from specialized personnel. Services and instructional support include:

• Adapted testing
• Adapted physical education
• Adaptive computer technology
• Campus referrals
• Citrus College web accessibility
• Closed-captioned videotapes
• Community liaison
• Electronic textbooks
• In-class and laboratory assistance
• Instructor liaison
• Note taker service
• Priority registration/registration assistance
• Reader service
• Sign language interpreting
• Specialized counseling
• Specialized equipment

New students should contact the DSP&S Office before enrolling to allow sufficient time to arrange for requested services.

**EOP&S/CARE**
Extended Opportunity Programs & Services/Cooperative Agencies Resources for Education (EOP&S) helps community college students from economically and educationally disadvantaged backgrounds achieve their academic and career goals. The support services consist of information and assistance in admissions, enrollment, financial aid, assessment, and selecting a major and/or a career.

EOP&S also provides:

• Support services such as priority registration, textbook purchase assistance, career test fee waivers, tutoring and self-development workshops
• Outreach to high schools, community-based organizations and agencies
• Peer advising designed to retain students using mentors and positive role models
• Counselors and educational advisers who provide academic and personal counseling
• Referrals to other services available on campus and in the community
• A six-week Summer Bridge program where potential students from local high schools attend classes, learn college success strategies and take field trips.

The CARE Program, established by the California Legislature (AB 3103), assists EOP&S students who are single parents on public assistance with at least one child under the age of 14.

Through CARE, students receive supplemental educational support services, such as counseling, advisement and peer networking activities specifically designed for low-income, single parents.

In addition, CARE provides grants and allowances for childcare, transportation, textbooks, and supplies to ensure strong retention, persistence and transfer rates among their students as they work to achieve their chosen objectives, which include obtaining vocational certificates of achievement or licenses, earning an associate degree, and/or transferring to a four-year college or university.

**Financial Aid**
The Financial Aid Office is responsible for initiating, monitoring, and disbursing federal and state funds. These programs are provided to students in the form of grants, scholarships, employment, and loans.
Federal and state financial aid programs are designed to assist all Citrus College students, especially those students from low to middle income families. The intent of these programs is to assist students who are pursuing post-secondary education and have not earned their first bachelor’s degree.

Students must apply for financial aid as soon as possible after January 1 of every year. Do not procrastinate. Many students underestimate the time it takes to prepare for college. It is important that both the student and the Financial Aid Office have enough time to prepare and process the applications in a timely manner.

In order to apply for financial aid, all of the following requirements must be satisfied:

   a. Eligible non-citizens include: U.S. permanent residents with an I-551 Card; Conditional Permanent residents with an I-551 Card; Applicants with an Arrival-Departure Record (I-94) with one of the following designations: "Refugee," "Asylum Granted," "Parole," or "Cuban-Haitian Entrant."
   b. A student who is in the U.S. on an F1 or F2 student visa, a J1 or J2 exchange visitor visa, or a G series visa, is not eligible for Federal Student Aid, but may be eligible for state or institutional aid.
2. Students must have a valid social security number.
3. Males born after 12/31/1959 must register with Selective Service. Call 1-847-688-6888 or go online to: www.sss.gov for registration guidelines or to verify registration.
4. A high school diploma, GED, or successful completion of the Ability To Benefit (ATB) Test is required.
5. Financial aid applicants must be undergraduate students enrolled in a certificate of achievement, degree, or transfer program.
6. Students must not owe a refund to any institution for grants received; nor be in loan default in a Stafford or Perkins Loan.
7. Maintain Satisfactory Academic Progress (SAP) as defined by the Financial Aid Office.
8. Demonstrate financial need, which is determined by the Financial Aid Office and based on the college's cost of attendance (COA) minus Expected Family Contribution (EFC), as defined by the federal methodology.

For Students Who Meet All of the Requirements
Students, who meet all of the above-stated requirements, should complete the Free Application for Federal Student Aid (FAFSA). Apply online at www.fafsa.ed.gov. Citrus College's Federal School Code is 001166. It is important to apply early; applications are accepted as early as January 1.

Once the FAFSA has been successfully completed, follow up with the Financial Aid Office for further completion of the application.

The Financial Aid Office may request some or all of the following:
- Student and/or parents' IRS tax return with W-2's
- Proof of untaxed income
- Social Security Card(s)
- Other information that pertains to financial income

When determining financial aid eligibility, several factors are taken into consideration, such as:
- Taxed and non-taxed family income
- Investment(s)
- Taxes paid
- Household size
- Number of family members in college

How to Apply for Financial Aid/Filing the FAFSA
A student can apply for financial aid through the Internet. Go to www.fafsa.ed.gov. A Personal Identification Number (PIN) will be required for both the student and the parent(s) of dependent students. Visit www.pin.ed.gov to apply for a PIN.

The Financial Aid Office staff is available to meet with students and assist them in filling out their FAFSA application online. The Financial Aid Office has a computer lab that is available to students.

Students who complete the FAFSA may qualify for one or more of the following programs:

Federal Programs:
The following federal programs are grants, which do not have to be repaid:
- The Federal Pell Grant is for students who have been determined eligible based on the federal methodology. This program assists students who have not earned a bachelor's degree.
• The **Federal Supplement Educational Opportunity Grant (FSEOG)** is for eligible students with exceptionally high financial need. Students must be Pell Grant eligible to receive FSEOG.

• The **Academic Competitiveness Grant (ACG)** is available to eligible undergraduate students who have completed a rigorous secondary high school program and graduated from high school after January 1, 2005.

• **Federal Work Study (FWS)** is awarded to students who declared on their FAFSA that they are interested in FWS. It provides students with an opportunity to earn funds through on or off campus jobs.

Loans are awarded to students based on eligibility and must be repaid. Direct Loans (Subsidized and Unsubsidized) are awarded to students who apply and have successfully completed their financial aid application (FAFSA).

**State Programs:**

The **Board of Governor's Grant (BOGG)** is a fee waiver designed for students who are California residents and demonstrate financial need. It covers the student's enrollment fee. This is not a cash grant.

**Cal Grants** are designed to assist students from low and middle income families to help pay for the students' educational expenses. These grants are sponsored by the California Student Aid Commission (CSAC). Eligibility is based on a student's grade point average (GPA), student/parent(s) income, and the student's course of study. To be eligible you must complete a FAFSA, and meet the Cal Grant deadlines, which are March 2 and September 2 of every year.

Funding availability depends on state budget.

**Scholarships**

Through its Foundation, Citrus College also offers a variety of scholarships that are available each semester for new, continuing, graduating, and transferring students. Citrus College students are also encouraged to apply for scholarships available from outside sources.

For more information on scholarship opportunities, please visit the Financial Aid Office or go online to:

- [www.citruscollege.edu/stdntsrv/finaid](http://www.citruscollege.edu/stdntsrv/finaid)
- [www.collegeboard.com](http://www.collegeboard.com)
- [www.collegenet.com](http://www.collegenet.com)
- [www.college-scholarships.com](http://www.college-scholarships.com)
- [www.salliemae.com](http://www.salliemae.com)
- [www.supercollege.com](http://www.supercollege.com)
- [www.usafunds.org](http://www.usafunds.org)

**Other Sources**

Students are invited and encouraged to contact the Financial Aid Office and other sources with questions regarding student aid programs, the application process, eligibility requirements, and deadlines.

**Citrus College**

Financial Aid Office
Location: ED 102
(across from the Administration Building)
(626) 914-8592
financialaid@citruscollege.edu
[www.citruscollege.edu/finaid](http://www.citruscollege.edu/finaid)

**U.S. Department of Education**

1-800-4FED-AID
(1-800-433-3243)
Monday through Friday,
8:00 a.m. and 8:00 p.m. EST.
[www.ed.gov](http://www.ed.gov)
1-800-730-8913
(Hearing Impaired)

**Veterans Affairs**

Veteran’s staff and information is available at the Veteran’s Center, located in the Educational Development Building (ED), ED 248.

Citrus College is an approved, degree granting institution for veterans and their eligible dependents. The United States Code (Title 38, Chapters 30, 31, 33, 35, 1606 and 1607) provides academic and career training opportunities for veterans. Citrus College invites and urges eligible students to take advantage of the support services available to veterans.

Citrus College cooperates with the Veterans Administration and with the California State Bureau of Vocational Rehabilitation to help veterans and their eligible dependents achieve their educational and vocational goals. Our program is recognized by the Bureau for Private Postsecondary and Vocational Education in the Department of Consumer Affairs for Veterans Education Benefit.

**How to Receive Veterans Benefits**

1. Submit an application for admission to Citrus College; [www.citruscollege.edu/ad](http://www.citruscollege.edu/ad)

2. Forward official transcripts of all previous college or university work completed and military service credits forwarded to Citrus College. Transcripts must be evaluated within the first two terms of enrollment, in order for a student to continue receiving Montgomery GI Bill (MGIB) benefits.

3. Meet with a Citrus College veterans counselor, who helps students develop a Student Education Plan (SEP). It is important that the counseling staff knows a
student’s veterans status in order to assign him/her to someone experienced in helping veterans.

4. Submit the application for VA educational benefits, including member copy 4 of DD-214.

5. Reserve and National Guard personnel must submit a Notice of Basic Eligibility (VA form DD-2384), which is issued by the student’s reserve or guard unit.

6. Submit all VA educational benefits paperwork to the Veterans Representative, located in the Veteran’s Center, ED 248, (626) 914-8516.

Additional Information Regarding VA Benefits

Applications for VA benefits will not be processed until all college transcripts have been received and the above procedures have been completed. Students receiving MGIB benefits for the first time must allow eight to 10 weeks from the processing date to receipt of the first check.

The Veterans Administration holds both the college and the recipient liable for overpayments. Overpayments commonly occur due to:

- Failure to process a Program Change Form when dropping a course. The Veterans Administration considers the recipient ineligible to receive benefits after the last date of attendance.
- Failure to report to the veterans clerk in the Veteran’s Center any change in a student’s number of units or change of address
- Repetition of a course in which a satisfactory grade (C or better) was received.
- If a student receives an overpayment, the Veterans Administration will automatically stop further payment until the entire amount due has been repaid.

- Veterans will receive a letter requesting repayment if the following categories apply:
  - Enrollment in fewer than six units and receiving benefits under Chapters 30, 31, 33, or 35
  - Enrollment in fewer than three units and receiving benefits under Chapter 1606
  - Officially withdrawn from school

Hardship

In the case of hardship, a veteran may apply to the Veterans Administration to arrange for repayment of the debt with as little inconvenience as possible.

Academic Eligibility

If a VA student’s cumulative grade point average remains below 2.0 for two consecutive terms, the student will not be certified for VA educational benefits until his/her academic status is restored to good standing.

Food Services

The Stuffed Owl Café, located downstairs from the Campus Center, offers a wide range of food selections. Monday through Friday, breakfast items are offered, as well as items from the grill; fresh pizza; fresh salads; deli sandwiches; a taco, burrito and tostada bar; and entrees of the day. Vending service is available at various locations on campus throughout the day and evening.

Health Center

The Student Health Center, located in Hayden Hall, supports the educational process and overall mission of Citrus College by providing quality health services and promoting positive health outcomes for the Citrus College community.

College nurses, part-time campus physicians, part-time nurse practitioners and other health care workers, staff the Student Health Center. Health services available to Citrus College students include:

- 12-step program referrals
- Accident and medical insurance information
- Acute illness/ambulatory treatment and care
- AIDS information, HIV testing and referrals
- Crisis intervention
- Commonly used prescription medications, including oral contraceptives, prescribed by the campus physician and/or nurse practitioner
- Condoms and personal hygiene items
- Eating disorders information and referrals
- Family Planning Services
- Health education (audio-visual, brochures & reference files)
- Hearing and vision screening
- Immunization (diphtheria-tetanus, flu, Hepatitis-A&B vaccine)
- Registered nurses and mental health counseling
- Off-campus referrals as needed
- Over-the-counter (non-prescription) medications available from our self help counter
- Plan B Emergency Contraception
- Substance abuse counseling, information and/or referrals
- Testing for sexually transmitted diseases (STD)
- Tuberculin skin tests

There is no charge for the college nurse, nurse practitioner or physician services; however, some tests, medications and procedures require a minimal fee. For safety reasons, children are not allowed in the Health Center.
Visit the Student Health Center or call (626) 914-8671 for information and/or appointments. Hours sometimes vary for college health nurses, nurse practitioners, physicians and other health care personnel.

**International Student Center**
The International Student Center directs and coordinates international student activities in compliance with federal regulations. Citrus College international students represent 45 countries, further enhancing the diversity of the campus. The interaction and networking among all students has proven to be an invaluable experience for everyone involved. The International Student Office also assists students through its orientation and support programs, ensuring students’ completion of their objectives.

Refer to the International Student Admissions section for more information about registration and enrollment.

www.citruscollege.edu/international

**Student Employment Services**
Student Employment Services is a free job referral service for current Citrus College students and alumni. Services include:

- A job board, divided by job classification, listing a variety of jobs—full and part time, permanent and temporary, on-and off-campus.
- Resume preparation and interviewing skills guidance
- A Cooperative Work Experience Education program, which allows Citrus College students to gain one to four units of credit. Participating students must be enrolled in a class at Citrus within their major and have a job in a field that corresponds with their major.
- Service Learning, which integrates community service with class content.
- The processing of all hiring, termination, and payroll data of on-campus student workers.

**Service Learning**
Service Learning integrates community service with what the student is learning in the classroom. Students work with their instructor and the Service Learning Coordinator to find meaningful volunteer opportunities in the community.

Through Service Learning, the student has the opportunity to apply concepts from his or her coursework, explore possible career choices and earn valuable work experience. Additionally, the student will gain an increased awareness of community needs and work to address those needs.

**Student Government and Student Affairs**

**ASCC**
The Associated Students of Citrus College (ASCC) is recognized by the Board of Trustees as the official student government organization, and is open to all student body members. An executive board composed of 19 members conducts ASCC business; 10 are elected members and nine are appointed members.

ASCC responsibilities include administering a budget of approximately $650,000, as well as planning and implementing many social, cultural and co-curricular programs. Most important of all, ASCC board members represent the interests of the student body on all campus-wide committees.

**Student Activities and Organizations**
Students are encouraged to become involved in student clubs and organizations. Club activities include business meetings, lectures, discussions, field trips, publications, exhibits and special events of interest to the general student body and to the community. To coordinate the club activities and provide more student representation in school government, the Inter-Club Council, represented by student members, holds weekly meetings.

Citrus College clubs include:
- Alpha Gamma Sigma (honor society)
- Anime Connection
- Automotive Club
- Black Student Union
- Campus Activities Board
- Campus Crusade for Christ
- Citrus Business Association
- Chess Club
- Citrus College Veterans Network
- Chicanos/Latinos for Community Medicine
- Cosmetology Club
- Dance Club
- Dental Assisting Club
- DJ Club
- Drumming Arts Society
- EOPS/CARE Club
- Esthetician Club
- Evening Cosmetology Club
- Film Club
- Gamers Unite Tomorrow Society (GUTS)
- International Friendship Club
- Latino Unidos Student Association
- Mind Poetic
- Muslim Student Association
- National Organization for Women (NOW)
- Phi Theta Kappa (PTK) Honor Society
- Philosophers’ Club
- Photography Club
- Pride Alliance
- Psi Beta (Psychology Honor society)
- Psychology Club
- Rotaract
- Sexploration
- Student Activist League
- Students for the Ethical Treatment of Animals
- Vocational Nursing

Veterans Center
The Citrus College Veterans Center is located in the Education Department building (ED 248) and employs one full-time staff member. In 2008, the college received a sizeable grant from the Wal-Mart Foundation to fund veterans’ services.

As a result, the Veterans Center provides a one-stop location where students can receive assistance with GI benefits processing, obtain counseling referrals, and access services such as the Veterans Book Fund, and the Veterans Network club. In addition, information about the Boots to Books course, peer to peer support groups and workshops for student veterans, and veterans organization contacts are also available through the Veterans Center.
Adaptive PE/Fitness Center
The Adapted Physical Education Center is the home of the Fitness Center. It is located between the main gymnasium and tennis courts. This facility offers exercise and fitness programs for students, Citrus College employees and community members who live in the college district.

The center features cardiovascular training machines and weight machines also modified to accommodate persons with disabilities. These machines include treadmills, flexacisers, stationary and recumbent bicycles, arm ergometers and stand aids. Individual progress is monitored by checking blood pressure (if needed), strength, endurance and flexibility.

The Adapted Physical Education Program is also conducted at the Adapted PE facility. Students with physical limitations can participate in this exercise and health-related physical fitness program, which includes adapted physical education courses and adapted aquatics. For more information visit www.citruscollege.edu (Fitness Center)

Aquatic Center
The Aquatic Center is the home of the swimming and water polo teams, and is frequently selected as the site for regional championship events.

The Aquatic Center also houses a therapy pool that is utilized by the athletic training staff to help treat injured athletes. It is open to the community and is often chosen as a location for television and movie shoots.

Art Gallery
The Art Gallery is located in the Hayden Memorial Library and features year-round exhibits by students and faculty from the Fine Arts Department.

Athletic Facilities
Citrus College’s athletics facilities are among the best in Southern California. Recent renovations to the 10,000-seat football, soccer and track stadium include an all-weather track and a field turf surface. A new turf practice field is also available. Citrus athletes have the advantage of premium practice facilities: one weight training room, a double-circuit (64-station) fitness center, and two athletic training rooms.

The campus’ athletic facilities continue to upgrade with the completion of the new two-story Field House, a brand new softball complex, and recent renovations to the Citrus College Gymnasium. The Field House will provide facilities to support football, baseball, soccer, cross country and track. The two-story building will also feature locker rooms, offices, equipment storage, and restrooms. The new softball complex features two softball fields both with artificial turf in the outfield, dirt infields and brand new state-of-the-art scoreboards.

Campus Center
The Ross L. Handy Campus Center is maintained by the Associated Students of Citrus College and provides a relaxation and meeting place for students, faculty, staff and the community. A staff member is on duty in the lounge area ensuring that the facility is used in accordance with ASCC and district policies. For their safety, children visiting the Campus Center must be accompanied by an adult.

College Success Program
The College Success Program provides educational opportunities for students to improve their reading, writing, math and communication skills. The program, which is designed with student success in mind, is comprised of the following components:
• College Success Centers offer tutoring, access to learning software, and free workshops on study skills and test taking.
• The college success counselor is available full time to assist students with class selection, educational plans, and access to college wide services.
• Learning Communities comprised of two or more “linked” classes, create a community of instructors and students, providing more support for student success.
• Fast Track accelerated classes in English, reading, math, and English as a Second Language allow students to complete a 16-week course in eight weeks.

Fiscal Services/Cashier
Fiscal Services handles all aspects of the college’s financial and budgetary matters. This includes student registration fees, childcare fees, and parking fines.

The cashier’s office (also known as the Bursar) provides a variety of financial services for students as well as staff, faculty and the public. These services include collecting class fees, debts and outstanding obligations; citation
payments; refund processing; disbursing payroll checks, and 1098T replacements.

**Golf Driving Range**
The Range At Citrus features two hitting surfaces, natural grass and mats; eight target greens, sand trap, 33 stations, a chipping area and a 2,500 sq. ft. putting green. The Range also offers varying size buckets of Top-Flite Tour balls.

This golf practice center, which is open to the public, features lessons from a professional and from Citrus College instructors. The well-lighted golf driving range is open seven days a week. A well-stocked pro shop and snack bar provide added convenience. Please contact The Range for hours of operation, (626) 914-8688.

The Range At Citrus is located at the southwest portion of the campus near the baseball field, with entrance from Citrus Avenue. Designated parking for golfers is available in front of The Range.

**Robert D. Haugh Performing Arts Center**
Since 1971, the Robert D. Haugh Performing Arts Center has provided cultural and educational entertainment to the community.

The 1,400-seat theatre offers a variety of programs from all of the performing arts disciplines. Series offered in the Haugh Center's season include:

**Evenings at Eight & Sundays at Two**
The popular Evenings at Eight & Sundays at Two series present a wide range of entertainment, such as The Smothers Brothers, Cherryholmes, Lorna Luft, Glen Campbell, Steve Tyrell, Debbie Reynolds, Big Bad Voodoo Daddy, Hal Holbrook, The Neville Brothers and Doc Severinsen.

**Saturday Series for Kids**
A Saturday afternoon series of events for young audiences—and their parents—to stimulate new ideas, provide different views of the world, and just plain have fun!

**Fine Arts Department Productions**
The Music Department, including the renowned Citrus Singers, present two major productions per year; including the annual "Christmas Is..."

In addition to their off-campus concerts, the award-winning Blue Note Orchestra performs throughout the year, accompanying headliners such as Patti Page or serving as an opening act for notables such as Bob Newhart. Every year, joined by the jazz band from Azusa Pacific University, the Blue Note Orchestra hosts sell-out crowds in the annual "Battle of the Big Bands." Additionally, the Citrus Music Theatre Workshop presents fully staged Broadway musicals with spectacular scenery and costumes. The Theatre and Dance Departments also present a range of performances annually.

**Learning Center**
Located on the second floor of the ED building, the Learning Center provides instructional support services and is open to all Citrus College students with a Citrus ID card.

**Success Center—Language Arts/Multidisciplinary**
The center provides multimedia computer programs, workshops, one-on-one assistance by trained staff, and directed learning experiences to any student seeking writing, reading, and ESL assistance, and to those students needing to meet their English lab requirements.

**Testing Center**
The Testing Center offers:
- Academic test proctoring
- Adapted testing
- Assessment testing

Academic test proctoring includes administering tests for Distance Education and make up exams for traditional classes, and providing test accommodations for students with disabilities through Adapted Testing.

Assessment testing is administered through a computerized "smart" placement test to determine students' initial placement into reading, English, ESL, and math courses.

The Testing Center offers placement tests, monitoring for distance education exams, and make-up tests on a drop-in basis (except Adapted Testing). Students must present a Citrus College student ID to use this service.
Students who require accommodations, due to disabilities or other circumstances, may arrange to take their exams through Adapted Testing. Typical accommodations provided by Adapted Testing include extended time, large print, distraction-reduced exam space and adapted computer equipment. Adapted Testing is available in the Testing Center by appointment only. Students must schedule an appointment at least five days in advance.

**Library and Research Resources**

**Library**
The Hayden Memorial Library/Learning Resource Center is located at the center of campus. This 33,000-square-foot facility contains approximately 40,000 print, 4,000 multimedia, and 22,000 electronic titles. The library also features individual seating for 200, six listening rooms, 11 group study rooms, 50 public computers and an orientation room with 20 computers and 40 chairs.

The library’s home page and catalog can be accessed online at [www.citruscollege.edu/library](http://www.citruscollege.edu/library). Its electronic databases are accessible by students and staff, on and off-campus, with passwords or by remote authentication.

The library staff will help students with research for class assignments and with personal information needs. The reference department offers group instruction to classes and one-on-one instruction in the library, by telephone or by e-mail.

**Computer Labs**
The Dan Angel Data Processing Center houses the college's main computer laboratory, several classrooms and the TeCS administrative offices. The computer laboratory, has a variety of computers, printers, and software available to Citrus College students who need computing resources to complete their class projects and assignments. The computers, along with other campus computing resources, are also used to support the Computer Science and Information Systems (CSIS) curriculum. This program has introductory and general interest course offerings for anyone desiring to learn how to use computers for personal or professional purposes, and specialized courses for those who want to pursue a career in information processing.

There are also computer equipped classrooms and laboratories in the Art, Life Sciences, Earth Sciences, Liberal Arts/Business, Mathematics/Science, Physical Sciences, Professional Center, and Educational Development buildings. Internet access is available in most of the college's computer classrooms and laboratories, including wireless access in the Student Center and the Library.

**STEM (Science, Technology, Engineering, Mathematics)**
The STEM Resource Center offers support for students interested in science, technology, engineering and math. Activities include online tutoring, supplemental Instruction, access to science materials and texts, contact with university representatives, STEM career workshops, guest speakers, and study groups.

**Study Abroad**
Citrus College students have the opportunity to study in Europe, Central America and China through Citrus College and the Southern California Foothills Consortium for Study Abroad. Courses are taught by Citrus College faculty or faculty from one of the Consortium member colleges. Most courses are CSU/UC transferable and meet general education requirements. Courses are chosen to maximize the benefits of studying in the host country. Selected courses often include English, humanities, art, theatre, history, political science, social science, speech, communications, philosophy, psychology, and on certain programs business, natural history and foreign language. Students who study in Spain are immersed in Spanish language and culture.

The Study Abroad experience provides students with a global perspective and knowledge of other cultures that cannot be gained in domestic study alone.

Semester length programs are offered in England and Spain. Citrus College also offers summer programs in Italy, Austria, China and Greece.

**Workforce Development**
Workforce Development is an important resource for Citrus College students who want to prepare for a career. In addition to providing information about classes, students are also directed to the programs and services that ensure their success.

Workforce Development also offers assistance in the form of scholarships, textbook loans and job search strategies.
How Do I Earn a Degree at Citrus College?
Programs of Study Leading to an Associate Degree

Requirements for Majors
The Associate in Arts and the Associate in Science degrees require a minimum of 18 units with grades of C or above in the following program categories, combined with general education and proficiency requirements.

Programs of Study Leading to an Associate in Arts Degree
* Child Development
* Dance
  Fine and Performing Arts
  Language Arts
* Liberal Arts with areas of emphasis
* Music
* Recording Arts Technology
  Social and Behavioral Sciences
* Theatre Arts
* Theatre Arts - Acting Emphasis
* Theatre Arts - Technical Theatre Emphasis

Programs of Study Leading to an Associate in Science Degree
  Administration of Justice
  Automotive Technology - Master Technician
  Biological and Physical Science (and Mathematics)
* Biological Sciences
  Business
  Cosmetology
  Dental Assisting
  Digital Design
  Drafting Technology
  Emergency Management and Homeland Security
* Energy Systems Technology
  Library Technology
  Mathematics
  Medium & Heavy Truck Technology
  Photography
  Physical Education
  Public Works
  Registered Nursing
  Vocational Nursing
  Water Technology

*Pending Chancellor’s Office Approval

Citrus College Core Competencies and Student Learning Outcomes
General education competencies serve as a common set of core curricular components identified and defined by faculty. Student learning outcomes are behaviors based on these competencies. Any student transferring or completing a degree or certificate from Citrus College must demonstrate effectively assessed awareness, understanding, knowledge, skills, and abilities in the selected competencies.
Any student transferring or completing a degree or certificate from Citrus College must demonstrate effectively assessed awareness, understanding, knowledge, skills, and abilities in the selected competencies. These learning outcomes address the general education philosophy of college (BP 4025, Graduation Requirements).

1. **Communication**
   Students read, write, speak, and listen effectively at the college level.

2. **Computation**
   Students demonstrate college level proficiency in mathematics and data analysis.

3. **Creative, Critical, and Analytical Thinking, Information Competency**
   Students apply curiosity, creativity, and aesthetic awareness in decision making based on evaluation, analysis, and synthesis of college level material.

4. **Community/Global Consciousness and Responsibility**
   Students assume personal responsibility and demonstrate respect for others as a measure of cultural awareness, ethics, and integrity.

5. **Technology**
   Students understand the changing role of technology in learning and community.

6. **Discipline/Subject Area Specific Content Material**
   Students demonstrate college level proficiency in a pattern of general education courses (General Education Philosophy).

Student learning outcomes are written in selected areas of competency at the course level (course outlines of record), program level (program review reports), and degree and certificate levels. Learning outcomes are mapped to show the relationships between and among the levels. General education learning outcomes are assessed through systematic analysis of course and program level assessment results.
Graduation Requirements for an Associate Degree

The Associate in Arts or the Associate in Science degree will be granted upon the completion of 60 degree-applicable units of work and fulfillment of the following specific requirements listed below. These graduation requirements shall apply to first time and returning students enrolling Fall Semester 2008 and thereafter. Students who have maintained continuous attendance (completed a course with an academic record symbol, excluding W, each semester) have the option of meeting these requirements or those in effect at the time continuous attendance began.

1. Scholarship Requirement
A cumulative grade-point average of 2.00 (C) must be earned in all lower division coursework attempted at any regionally accredited institution of post-secondary education. Please note: Only Citrus College courses numbered 100 – 299 and Cooperative Work Experience Education may apply toward the Associate Degree.

2. Residence Requirement
   a. Completion of a minimum of 12 units in residence including attendance during the last semester; or
   b. 30 units in residence if the last semester is not in residence.

3. Major Requirement
A student must achieve a grade of C or better in each course attempted that is counted for the major.

4. General Education Requirements
   a. Option I: 22 units as stipulated by the Citrus College graduation requirements; or
   b. Option II: 39 units as stipulated by the CSU general education certification requirements; or
   c. Option III: 37-39 units as stipulated by the completion of the IGETC or CSUGE pattern.

5. Physical Education Requirement
   a. Three units of Physical Education or Dance Activity; or
   b. Completion of PE 170, 171, or 173.

6. Competency Requirements
   a. Writing: Completion of an English Composition General Education Requirement with a grade of C or better. Effective for all students admitted to a community college for the Fall 2009 term or any term thereafter, competence in written expression shall be demonstrated by obtaining a satisfactory grade in an English course at the level of the course typically known as Freshman Composition or an other approved English course at the same level and with the same rigor. Or, the student can complete an assessment and achieve a score determined to be comparable to satisfactory completion of the specified English course. Satisfactory completion of an English course at the level of Freshman Composition shall satisfy both this competency requirement and the coursework requirement.

   b. Mathematics: Proficiency in Mathematics may be satisfied by one of the following:
      • Completion of one year of high school elementary algebra AND placement at the level of Intermediate Algebra or higher on the Math Assessment Test; or
      • Completion of any mathematics class listed in the mathematics section of the General Education Requirements with a grade of “C” or better.

   Effective for all students admitted to a community college for the Fall 2009 term or any term thereafter: competence in mathematics shall be demonstrated by obtaining a satisfactory grade in a mathematics course at the level of the course typically known as intermediate algebra. Intermediate algebra or another approved mathematics course at the same level, with the same rigor and with elementary algebra as a prerequisite, is acceptable. Or, the student can complete an assessment determined to be comparable to satisfactory completion of the specified math course.

   c. Reading: Proficiency in reading may be satisfied by one of the following:
      • A satisfactory score on the reading component of the placement test at the level of Reading 120; or
      • A passing grade in Reading 099.

7. General Education Requirements
Completion of 22 units of general education distributed according to the following pattern:
   a. Natural Sciences: One or two courses, four units minimum, including one laboratory course OR one course from Biological Science and One course from Physical Science.
Courses in the natural sciences examine the physical universe, its life forms, and its natural phenomena. They assist in developing an appreciation and understanding of the scientific method and encourage an understanding of the relationships between science and other human activities.

This category includes introductory or integrative courses in astronomy, biology, chemistry, general physical science, geology, physics, physical geography, physical anthropology, and other scientific disciplines.

b. Social and Behavioral Sciences: Two courses, six units minimum including one course from History and Political Science and one course from Behavioral Science.

Courses in the social and behavioral sciences focus on people as members of society. They assist in developing an awareness of the methods of inquiry used by the social and behavioral sciences. Critical thinking is stimulated about the ways people act and have acted in response to their societies, and appreciation is developed of how societies and social groups operate.

This category includes introductory or integrative survey courses in cultural anthropology, economics, history, political science, psychology, sociology, cultural geography, and related disciplines.

c. Arts and Humanities: Two courses, six units minimum, one course from two different areas that include Fine Arts, Foreign Language, Humanities, Literature and Philosophy.

Courses in the arts and humanities study the cultural activities and artistic expressions of human beings. They assist in developing an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creation, and in developing aesthetic understanding and an ability to make value judgments. This category includes introductory or integrative courses in the arts, foreign languages, literature, philosophy and religion.

d. Language and Rationality:
- Students following the mathematics competency requirement using the mathematics assessment test are required to complete two courses, six units minimum, including one course from English Composition and one course from either Mathematics or Communication and Analytical Thinking; or
- Students who have not satisfied the mathematics competency are required to complete three courses from English Composition, one Course from Mathematics and one course from Communication and Analytical Thinking.
- Courses in language and rationality develop the principles and applications of language toward logical thought, clear and precise expression and critical evaluation of communication in whatever symbol system the student uses.

GENERAL EDUCATION PHILOSOPHY AND REQUIREMENTS

The awarding of an associate degree is intended to represent more than an accumulation of units. It symbolizes a successful attempt on the part of Citrus College to lead students through patterns of learning experiences designed to develop certain capabilities and insights, such as the ability to:

- Think and communicate clearly and effectively through oral and written expression;
- Develop logical and convincing arguments, reaching conclusions that are based on comprehensive inquiry;
- Adapt and apply technology to facilitate the acquisition and effective use of information;
- Understand the modes of inquiry of the major disciplines;
- Enhance the appreciation of the arts;
- Develop a lifestyle that will enhance physical and mental health, and wellness;
- Appreciate the contributions of different cultures, eras, and traditions to the human experience;
- Achieve insights gained through experience in thinking about ethics, integrity, honesty, self-management and the welfare of others;
- Develop the capacity for self-understanding; and
- Become informed citizens and problem solvers.

In addition to these accomplishments, the student shall possess sufficient depth in some field of knowledge to contribute to lifetime interest.

Central to an associate Degree, General Education is designed to introduce students to the variety of means through which people comprehend the
modern world. It reflects the conviction of colleges that those who receive their degrees must possess in common certain basic principles, concepts and methodologies both unique to and shared by the various disciplines. College educated persons must be able to use this knowledge when evaluating and appreciating the physical environment, the culture, and the society in which they live. Most importantly, General Education should lead to better self-understanding.

Completion of 22 units of general education distributed according to the following pattern (a maximum of 6 units or two classes from the major requirement may be applied to the general education requirements).

### A. Natural Sciences: (4 units minimum).
One lecture/lab course (lab courses in bold) or 2 lecture courses, one from each area.

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
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<td>Biology: Contemporary Topics</td>
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<td>AIDS: Insights &amp; Implications</td>
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<td>Principles of Biology I</td>
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<td>ASTR 116</td>
<td>Stellar Astronomy</td>
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<td>ASTR 117</td>
<td>Life in the Universe</td>
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<td>Earth and Space Science for Educators</td>
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<td>Geology: Earth History</td>
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<td>ESCI 124</td>
<td>Environmental Geology</td>
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<td>General Physics</td>
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<tr>
<td>PHYS 201</td>
<td>Physics</td>
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### B. Social and Behavioral Sciences (6 units minimum)

Two courses, one from History/Political Science and one from Behavioral Sciences

### I. HISTORY AND POLITICAL SCIENCE

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<td>Principles of Economics - Micro</td>
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<td>History of World Civilization</td>
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<td>HIST 103H</td>
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<td>Political &amp; Social History of U.S.</td>
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<td>Survey History of Africa</td>
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<td>HIST 111</td>
<td>History of Afro Americans</td>
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<td>History of Afro Americans</td>
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<tr>
<td>HIST 120</td>
<td>British Life &amp; Culture</td>
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<td>HIST 127</td>
<td>Spanish Civilization</td>
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<td>HIST 130</td>
<td>History of Latin America</td>
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<tr>
<td>HIST 139</td>
<td>History of California</td>
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<td>HIST 140</td>
<td>History of the American West</td>
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<td>HIST 145</td>
<td>History of Mexico</td>
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<td>HIST 155</td>
<td>History of the Vietnam War</td>
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<td>HIST 222</td>
<td>History of World War II</td>
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<td>POLI 103</td>
<td>American Government and Politics</td>
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<td>POLI 103H</td>
<td>Government of the U.S.</td>
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<tr>
<td>POLI 104</td>
<td>Intro to Political Science</td>
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<td>POLI 105</td>
<td>Comparative Politics</td>
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<td>POLI 110</td>
<td>Current American Political Issues</td>
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<td>POLI 116</td>
<td>Contemporary World Politics</td>
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### II. BEHAVIORAL SCIENCES

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<tr>
<td>ANTH 214</td>
<td>Native North America</td>
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<tr>
<td>ANTH 216</td>
<td>Sex &amp; Gender in a Cross-Cultural</td>
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<td>Perspective</td>
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ANTH 216H  Sex and Gender in A Cross-Cultural Perspective  
CHLD 110  Early Childhood Development  
CHLD 111  Child Development, Youth-Adolescence  
PSY 101  Intro to Psychology  
PSY 110  Psychology of Religion  
PSY 133  Personal & Social Growth  
PSY 152  Psychology of Human Relations  
PSY 205  Developmental Psychology  
PSY 206  Child Growth & Development  
PSY 206H  Child Growth & Development  
PSY 213  Survey of Drug & Alcohol Use & Abuse  
PSY 220  Introduction to Social Psychology  
PSY 225  Psychology of Human Sexuality  
PSY 226  Psychology of Women  
SOC 114  Marriage, Family & Intimate Rel  
SOC 118  Minorities in America  
SOC 122  Intro to Chicano Studies  
SOC 201  Intro to Sociology  
SOC 201H  Intro to Sociology  
SOC 202  Contemporary Social Problems  
SOC 216  Sex & Gender in a Cross Cultural Perspective  

C. Arts and Humanities: (6 units minimum)  
Two courses, one course from Arts and one course from Humanities.

ARTS
COMM 100  Mass Media & Society  
COMM 136  Cultural History of American Film  
ART 100  Art Hist & Apprec - Fundamentals  
ART 101  Art Hist & Apprec - Ancient  
ART 102  Art Hist & Apprec - Medieval  
ART 103  Art Hist & Apprec - Renaissance  
ART 104  Art Hist & Apprec - 19th Century  
ART 105  Art Hist & Apprec - 20th Century  
ART 106  Art Hist & Apprec - Pre-Columbian  
ART 199  Motion Picture Appreciation  
ART 200  History of Motion Pictures  
ART 201  History of Motion Pictures  
ART 206  History of Latin American Art  
ART 207  History of Asian Art  
COMM 100  Mass Media & Society  
COMM 136  Cultural History of American Film  
DANC 102  History of Dance  
MUS 110  History of Music  
MUS 111  History of Music  
MUS 113  History of Rock & Roll  
MUS 114  Music Appreciation  
MUS 218  History of Jazz  
MUS 225  Introduction to American Music  
THEA 101  Introduction to Theatre  
THEA 250  Theatre Appreciation  

HUMANITIES
COMM 200  Visual Communications  
ENGL 102  Literature & Composition  
ENGL 213  Horror Literature  
ENGL 213H  Horror Literature  
ENGL 251  Intro to English Literature I  
ENGL 252  Intro to English Literature II  
ENGL 261  Intro to American Literature I  
ENGL 262  Intro to American Literature II  
ENGL 271  Intro to World Lit-Ancient/Med  
ENGL 272  Intro to World Lit-Renaiss/Modrn  
ENGL 291  Film as Literature  
ENGL 291H  Honors Film as Literature  
ENGL 293  Children's Literature  
ENGL 293H  Children's Literature  
ENGL 294  Intro to Shakespeare  
ENGL 296  Intro to Folklore  
ENGL 298  Bible as Literature  
FREN 101  French I  
FREN 102  French II  
FREN 201  French III  
FREN 202  French IV  
GER 101  German I  
GER 102  German II  
GER 201  German III  
GER 202  German IV  
HUM 101  Humanities  
HUM 101H  Humanities  
HUM 102  Humanities  
HUM 110  Humanities in the 20th Cent  
HUM 111  Humanities through the Arts  
JPN 101  Japanese I  
JPN 102  Japanese II  
PHIL 101  Great Religions of the World  
PHIL 106  Introduction to Philosophy  
PHIL 106H  Intro to Philosophy  
PHIL 108  Philosophy - Ethics  
SPAN 101  Spanish I  
SPAN 102  Spanish II  
SPAN 201  Spanish III  
SPAN 202  Spanish IV  
SPAN 210  Intern Spanish for Span Spkrs  
SPAN 211  Reading & Comp for Span Spkrs  

D. Language and Rationality
Students satisfying the mathematics competency requirement through the Mathematics Assessment are required to complete 2 courses, 6 units minimum, including one course from English Composition and one course from either Mathematics or Communication and Analytical Thinking.

Students who do not satisfy the mathematics competency through the Mathematics Assessment are required to complete 3 courses, 9 units minimum, in
including one course from English, one course from Communication and Analytical Thinking and one course from Mathematics (with a C grade or better).

**ENGLISH COMPOSITION**
- ENGL 101 Reading & Composition
- ENGL 101H Reading & Composition
- ESL 101 Reading & Composition

**COMMUNICATION AND ANALYTICAL THINKING**
- CSIS 105 Introduction to Windows and Personal Computers
- CSIS 107 Computer Information Technology Concepts
- CSIS 111 Intro to Programming Concepts & Design
- CSIS 130 Microcomputer Applications
- ENGL 103 Composition & Critical Thinking
- ENGL 103H Composition & Critical Thinking
- ENGL 104 Adv Rhetoric: Classical Essay
- OFF 101 Introduction to Microsoft Office Applications
- PHIL 109 Critical Reasoning & Writing
- PHIL 110 Logic
- PSY 103 Elementary Statistics
- SPCH 100 Interpersonal Communication
- SPCH 101 Public Address
- SPCH 101H Public Address
- SPCH 103 Argumentation & Debate
- SPCH 106 Small Group Communication

**MATHEMATICS**
- MATH 148 Intermediate Algebra and
- MATH 149 Intermediate Algebra
- MATH 150 Intermediate Algebra
- MATH 151 Plane Trigonometry
- MATH 160 Survey of Mathematics
- MATH 162 Math Analysis
- MATH 165 Statistics
- MATH 165H Statistics
- MATH 168 Math for Elementary Teachers I
- MATH 169 Math for Elementary Teachers II
- MATH 170 College Algebra
- MATH 175 Pre-calculus
- MATH 190 Calculus w/Analytic Geometry I
- MATH 191 Calculus w/Analytic Geometry II

**Physical Education**
All students must complete one of the following:

**A. Three units of any P.E. activity or dance activity courses**
(No varsity sports courses may be used)

**B. PE 170, PE 171, or PE 173**

**Application for Graduation**
Graduating students must file a formal application for graduation with the Counseling and Advisement Department. Students may graduate at the end of the fall, winter, spring or summer semesters, although only one Commencement ceremony is held in the spring.

All transcripts of prior college work must be on file in the Admissions and Records Office before the application can be completed; refer to the current class schedule for application deadlines.

**Multiple Majors**
Within the graduation requirements for the Associate Degree at Citrus College, it is possible for a student to complete the requirements for more than one major providing that minimum requirements are met for each major and that a minimum of 18 units applies exclusively to each major.

**Online Degrees**
Associate degrees can be earned online through Distance Education. Visit [www.citruscollege.edu/de](http://www.citruscollege.edu/de) and consult a counselor for details.
PROGRAMS OF STUDY

Administration of Justice

Administration of Justice offers men and women a career of personal challenge and rewarding public service. A great need exist for intelligent, well-educated personnel with a firm commitment toward professional improvement in the justice system. Citrus College offers courses to prepare students for employment and promotion in the criminal justice system.

Please select 18 "degree appropriate" units from the courses below.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

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<tr>
<td>AUTO 169</td>
<td>6</td>
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<tr>
<td>AUTO 170</td>
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<tr>
<td>AUTO 281</td>
<td>7</td>
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<tr>
<td>AUTO 285</td>
<td>1</td>
</tr>
<tr>
<td>AUTO 290</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units 18

Additional Acceptable Courses

PHTO 101 Basic Photography
SOC 203 Criminology

Total Units 18

Automotive Technology

This program is designed to prepare students who wish to seek employment in the automotive technology industry or qualify for a more responsible position within the field.

Please select 18 "degree appropriate" units from the courses below.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 100 Automotive Technology and Maintenance for the Consumer 3</td>
</tr>
<tr>
<td>AUTO 101 Fundamentals of Automotive Service, Diagnosis and Repair 5</td>
</tr>
<tr>
<td>AUTO 130 Basic Smog Technician 2</td>
</tr>
<tr>
<td>AUTO 131 Advanced Smog Technician 2</td>
</tr>
<tr>
<td>AUTO 135 Bureau of Automotive Repair (BAR) On-Board Diagnostics II 1</td>
</tr>
<tr>
<td>AUTO 140 Principles of Automotive Technology 3</td>
</tr>
<tr>
<td>AUTO 142 Drivetrain Systems 5</td>
</tr>
<tr>
<td>AUTO 144 Chassis Systems 5</td>
</tr>
<tr>
<td>AUTO 145 Automotive Service Consulting 3</td>
</tr>
<tr>
<td>AUTO 146 Automotive Electrical Systems 4</td>
</tr>
<tr>
<td>AUTO 148 Engine Control Systems 5</td>
</tr>
<tr>
<td>AUTO 151 Engine Service, Diagnosis and Repair 5</td>
</tr>
<tr>
<td>AUTO 154 Chassis Service, Diagnosis, and Repair 8</td>
</tr>
<tr>
<td>AUTO 156 Automotive Electrical/Electronic Systems I 4</td>
</tr>
<tr>
<td>AUTO 162 Drivetrain Service, Diagnosis and Repair 8</td>
</tr>
<tr>
<td>AUTO 166 Automotive Electrical/Electronic Systems II 3</td>
</tr>
<tr>
<td>AUTO 167 Automotive HVAC Service, Diagnosis &amp; Repair 3</td>
</tr>
<tr>
<td>AUTO 168 Engine Control Systems Service, Diagnosis and Repair 8</td>
</tr>
<tr>
<td>AUTO 190 Introduction to Compressed Natural Gas Vehicles 3</td>
</tr>
<tr>
<td>AUTO 245 Automotive Service Management 3</td>
</tr>
<tr>
<td>AUTO 260 Engine Design 6</td>
</tr>
<tr>
<td>AUTO 261 Cylinder Head Rebuilding 4</td>
</tr>
<tr>
<td>AUTO 281 Advanced Toyota Certified Technician Training 7</td>
</tr>
<tr>
<td>AUTO 285 Digital Storage Oscilloscopes 1</td>
</tr>
<tr>
<td>AUTO 290 Introduction to the Automotive Aftermarket 1</td>
</tr>
</tbody>
</table>
**CITRUS COLLEGE CATALOG 2009 • 2010**

## AUTO 291 Engine Performance Enhancements and Tuning
- **Units:** 3

## AUTO 292 Advanced Drivetrain Development
- **Units:** 2

## AUTO 293 Advanced Steering, Suspension Geometry, Brake Design and Analysis
- **Units:** 3

## AUTO 294 Brake Design and Analysis
- **Units:** 3

## AUTO 295 Special Projects
- **Units:** 2

## AUTO 297 Cylinder Block Development
- **Units:** 4

## AUTO 698A Cooperative Education
- **Units:** 1

## AUTO 698B Cooperative Education
- **Units:** 2

## AUTO 698C Cooperative Education
- **Units:** 3

## AUTO 698D Cooperative Education
- **Units:** 4

## AUTO 699A Cooperative Education
- **Units:** 1

## AUTO 699B Cooperative Education
- **Units:** 2

## AUTO 699C Cooperative Education
- **Units:** 3

## AUTO 699D Cooperative Education
- **Units:** 4

### Additional Acceptable Course Units

- **BUS 170 Small Business Management**
  - **Units:** 3

### Total Units 18

---

### Biological and Physical Sciences (and Mathematics)

Courses in the Biological and Physical Sciences and Mathematics examine the physical universe, its life forms, and its natural phenomena. They assist in developing an appreciation and understanding of the scientific method and encourage an understanding of the relationships between science and other human activities.

This category includes introductory or integrative courses in astronomy, biology, chemistry, general physical science, geology, physics, physical geography, physical anthropology, and other scientific disciplines.

Please select 18 "degree appropriate" units from the courses below.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

---

### ASTRONOMY

- **ASTR 115 Planetary Astronomy**
  - **Units:** 3

- **ASTR 115H Honors Planetary Astronomy**
  - **Units:** 3

- **ASTR 116 Stellar Astronomy**
  - **Units:** 4

- **ASTR 117 Life in the Universe**
  - **Units:** 3

### BIOLOGY

- **BIOL 100 Introductory Biology**
  - **Units:** 3

- **BIOL 102 Genetics**
  - **Units:** 3

- **BIOL 104 Biology: Contemporary Topics**
  - **Units:** 3

### CHEMISTRY

- **CHEM 103 College Chemistry**
  - **Units:** 5

- **CHEM 104 College Chemistry**
  - **Units:** 5

- **CHEM 106 Chemistry and Physics for Educators**
  - **Units:** 4

- **CHEM 110 Beginning General Chemistry**
  - **Units:** 5

- **CHEM 111 General Chemistry**
  - **Units:** 5

- **CHEM 112 General Chemistry**
  - **Units:** 5

- **CHEM 210 Organic Chemistry**
  - **Units:** 3

- **CHEM 211L Organic Chemistry Laboratory**
  - **Units:** 1

- **CHEM 220 Organic Chemistry**
  - **Units:** 3

- **CHEM 221L Organic Chemistry Laboratory**
  - **Units:** 1

### COMPUTER SCIENCE & INFORMATION SYSTEMS

- **CSIS 105 Introduction to Windows and Personal Computers**
  - **Units:** 2

- **CSIS 107 Fundamentals of Information Technology**
  - **Units:** 4

- **CSIS 111 Introduction to Programming Concepts and Design**
  - **Units:** 4

- **CSIS 119 Introduction to Web Programming**
  - **Units:** 3

- **CSIS 130 Microcomputer Applications I**
  - **Units:** 4

- **CSIS 140 Java Programming**
  - **Units:** 4

- **CSIS 150 Web Development with Dreamweaver**
  - **Units:** 2

- **CSIS 151 Web Development with Dreamweaver II**
  - **Units:** 2

- **CSIS 154 Web Development with Fireworks**
  - **Units:** 2

- **CSIS 156 Web Development with Flash**
  - **Units:** 2

- **CSIS 162 Electronic Spreadsheets Using Microsoft Excel**
  - **Units:** 3

- **CSIS 166 Introduction of PowerPoint**
  - **Units:** 2

- **CSIS 167 Introduction to MS Publisher**
  - **Units:** 2

- **CSIS 168 Using Web Page Software**
  - **Units:** 4

- **CSIS 175 Introduction to Access**
  - **Units:** 2

- **CSIS 181 Introduction to Microsoft Project Management**
  - **Units:** 2

- **CSIS 190 Introduction to Flash Game Programming**
  - **Units:** 4

- **CSIS 225 Object Oriented Programming with C++**
  - **Units:** 4

- **CSIS 230 Microcomputer Applications II**
  - **Units:** 4
<table>
<thead>
<tr>
<th>ENGINEERING</th>
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<tbody>
<tr>
<td>ENGR 100 Principles of Technology</td>
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<tr>
<td>ENGR 104 PC Hardware and Maintenance</td>
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<tr>
<td>ENGR 107 Network Technology</td>
<td>4</td>
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<tr>
<td>ENGR 108 Networking Operating Systems</td>
<td>4</td>
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<tr>
<td>ENGR 109 Network and Computer Security</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 122 Engineering Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 125 Introduction to Engineering CAD</td>
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<tr>
<td>ENGR 130 Engineering Graphics</td>
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<tr>
<th>FORESTRY</th>
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<tbody>
<tr>
<td>FOR 101 Introduction to Forestry</td>
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</tr>
<tr>
<td>FOR 102 Introduction to Forest Ecology</td>
<td>3</td>
</tr>
<tr>
<td>FOR 103 Plant Identification</td>
<td>3</td>
</tr>
<tr>
<td>FOR 104 Introduction to Outdoor Recreation</td>
<td>3</td>
</tr>
<tr>
<td>FOR 105 Wildland Fire Management</td>
<td>3</td>
</tr>
<tr>
<td>FOR 106 Principles of Wildlife Management and Ecology</td>
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<table>
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<tr>
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<tr>
<td>ESCI 111 Earth and Space Science for Educators</td>
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<tr>
<td>ESCI 118 Physical Geography</td>
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<tr>
<td>ESCI 120 Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>ESCI 121 Historical Geology</td>
<td>4</td>
</tr>
<tr>
<td>ESCI 122 Geology: Earth History</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 124 Environmental Geology</td>
<td>3</td>
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<tr>
<td>ESCI 125 California Geology</td>
<td>4</td>
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<tr>
<td>ESCI 140 The Geology of Death Valley National Park</td>
<td>2</td>
</tr>
<tr>
<td>ESCI 141 The Geology of Yosemite National Park</td>
<td>2</td>
</tr>
<tr>
<td>ESCI 142 The Geology of Channel Islands National Park</td>
<td>2</td>
</tr>
<tr>
<td>ESCI 143 The Geology of Joshua Tree National Park</td>
<td>2</td>
</tr>
<tr>
<td>ESCI 145 The Geology of Sequoia National Park</td>
<td>2</td>
</tr>
<tr>
<td>ESCI 180 Introduction to Geographic Information Systems</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>OCEANOGRAPHY</th>
<th>Units</th>
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<tbody>
<tr>
<td>ESCI 130 Physical Oceanography</td>
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<table>
<thead>
<tr>
<th>PHYSICS</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHYS 105 Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 106 Chemistry and Physics for Educators</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 110 Introduction to College Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111 General Physics</td>
<td>4</td>
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<tr>
<td>PHYS 112 General Physics</td>
<td>4</td>
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<tr>
<td>PHYS 201 Physics</td>
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<tr>
<td>PHYS 202 Physics</td>
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<tr>
<td>PHYS 203 Physics</td>
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<table>
<thead>
<tr>
<th>ADDITIONAL ACCEPTABLE COURSE (UNDER A.S. NATURAL SCIENCES)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 110 Philosophy/Logic</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units 18**

*Biological Sciences*

The associate degree in biological science prepares students for pre-professional careers and a curriculum in a four-year institution leading to a baccalaureate degree in such areas as microbiology, organismal biology, cell and molecular biology, and teaching. The biologist is also prepared to enter graduate or professional programs of specialized study such as medicine, dentistry, medical technology, osteopathy, veterinary medicine, agriculture, forestry, optometry, and dental hygiene.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**REQUIRED COURSES:**

- BIOL 124 Principles of Biology I 5
- BIOL 125 Principles of Biology II 5
- CHEM 111 General Chemistry 5
- CHEM 112 General Chemistry 5
- MATH 190 Calculus with Analytic Geometry I 4
- MATH 165 Introductory Statistics 4
  or
- MATH 191 Calculus with Analytic Geometry II 4

**Total Units 28**

*Pending chancellor's office approval*
Business

The Business Program encompasses a broad area of study that includes business management, business law, marketing, business ethics, personal finance and business communication skills. The Business Program within the Citrus College Business Department conducts the program with outstanding faculty to prepare students to transfer to four-year institutions, for professional careers and/or personal growth. The program combines classroom lectures, demonstrations and practical application within the business environment.

Please select 18 "degree appropriate" units from the courses below.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<table>
<thead>
<tr>
<th>ACCOUNTING</th>
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<tr>
<td>ACCT 100</td>
<td>Accounting 3</td>
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<tr>
<td>ACCT 101</td>
<td>Financial Accounting 4</td>
</tr>
<tr>
<td>ACCT 101H</td>
<td>Financial Accounting - Honors 4</td>
</tr>
<tr>
<td>ACCT 102</td>
<td>Managerial Accounting 4</td>
</tr>
<tr>
<td>ACCT 110</td>
<td>Income Tax Accounting 4</td>
</tr>
<tr>
<td>ACCT 115</td>
<td>QuickBooks 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BUSINESS</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BUS 130</td>
<td>Introduction to Business 3</td>
</tr>
<tr>
<td>BUS 132</td>
<td>Ethics in Business 3</td>
</tr>
<tr>
<td>BUS 140</td>
<td>International Business 3</td>
</tr>
<tr>
<td>BUS 146</td>
<td>Personal Finance 3</td>
</tr>
<tr>
<td>BUS 150</td>
<td>Business English 3</td>
</tr>
<tr>
<td>BUS 152</td>
<td>Business Communications 3</td>
</tr>
<tr>
<td>BUS 160</td>
<td>Business Law and the Legal Environment I 3</td>
</tr>
<tr>
<td>BUS 161</td>
<td>Business Law and the Legal Environment II 3</td>
</tr>
<tr>
<td>BUS 170</td>
<td>Small Business Management 3</td>
</tr>
<tr>
<td>BUS 172</td>
<td>Personnel Management 3</td>
</tr>
<tr>
<td>BUS 175</td>
<td>Introduction to Management 3</td>
</tr>
<tr>
<td>BUS 176</td>
<td>Management for the Office Professional 3</td>
</tr>
<tr>
<td>BUS 185</td>
<td>Elements of Marketing 3</td>
</tr>
<tr>
<td>BUS 192</td>
<td>Advertising 3</td>
</tr>
<tr>
<td>BUS 246</td>
<td>Personal Investments 3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>COMPUTER SCIENCE AND INFORMATION SYSTEMS</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSIS 105</td>
<td>Introduction to Windows and Personal Computers 2</td>
</tr>
<tr>
<td>CSIS 107</td>
<td>Fundamentals of Information Technology 4</td>
</tr>
<tr>
<td>CSIS 111</td>
<td>Introduction to Programming Concepts and Design 4</td>
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</table>

<table>
<thead>
<tr>
<th>OFFICE OCCUPATIONS</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF 101</td>
<td>Introduction to Microsoft Office Applications 3</td>
</tr>
<tr>
<td>OFF 120</td>
<td>Excel Spreadsheet 2</td>
</tr>
<tr>
<td>OFF 154</td>
<td>Professional Development – Interpersonal Skills 1</td>
</tr>
<tr>
<td>OFF 155</td>
<td>Professional Development Series – Business Etiquette and Protocol 1</td>
</tr>
<tr>
<td>OFF 156</td>
<td>Professional Development Series: Team Dynamics 1</td>
</tr>
<tr>
<td>OFF 157</td>
<td>Professional Development Series: Customer Relations and Rapport 1</td>
</tr>
<tr>
<td>OFF 158</td>
<td>Professional Development Series: Leadership in Organizations 1</td>
</tr>
<tr>
<td>OFF 159</td>
<td>Professional Development Series: Career Planning and Networking 1</td>
</tr>
<tr>
<td>OFF 160</td>
<td>Professional Development Series: Professional Image 1</td>
</tr>
<tr>
<td>OFF 161</td>
<td>Professional Development Series: Interview Styles &amp; Strategies 1</td>
</tr>
<tr>
<td>OFF 201</td>
<td>Introduction to Electronic Commerce for Business 2</td>
</tr>
<tr>
<td>OFF 215</td>
<td>Introduction to Microsoft Outlook 2</td>
</tr>
<tr>
<td>OFF 260</td>
<td>Computer Keyboarding and Document Processing 3</td>
</tr>
<tr>
<td>OFF 281</td>
<td>Filing and Records Management 3</td>
</tr>
<tr>
<td>OFF 285</td>
<td>Administrative Office Procedures 3</td>
</tr>
<tr>
<td>OFF 291</td>
<td>Telecommunications for the Office 2</td>
</tr>
<tr>
<td>OFF 294</td>
<td>Beginning Microsoft Word 2</td>
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<table>
<thead>
<tr>
<th>REAL ESTATE</th>
<th>Units</th>
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<tbody>
<tr>
<td>REAL 210</td>
<td>Real Estate Principles 3</td>
</tr>
<tr>
<td>REAL 212</td>
<td>Real Estate Practice 3</td>
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<tr>
<td>REAL 214</td>
<td>Real Estate Finance 3</td>
</tr>
<tr>
<td>REAL 216</td>
<td>Legal Aspects of Estate Practice 3</td>
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</table>
### ADDITIONAL ACCEPTABLE COURSES

<table>
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<tr>
<th>Course</th>
<th>Units</th>
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<tr>
<td>ECON 102</td>
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<tr>
<td>MATH 162</td>
<td>4</td>
</tr>
<tr>
<td>MATH 165</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units 18**

### Child Development

The curriculum leads to an associate in arts degree and meets the educational requirements for employment as a teacher or assistant teacher in preschools and children’s centers.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**Category A**

**Three Units of Child Development**

Select ONE of the following:

- CHLD 110 Early Childhood Development 3
- or
- PSY 206 Child Growth and Development 3

**Category B**

**Required Major Courses:**

- CHLD 112 Principles of Early Childhood Education I 3
- CHLD 114 Home-Child-Community Relations 3
- CHLD 116 Introduction to Curriculum 3
- CHLD 144 Health, Safety and Nutrition for Young Children 3
- CHLD 150 Multi-Culture Anti-Bias Classrooms 3
- CHLD 154 Observing and Recording Behavior 3

**Category C**

**Practicum (Fieldwork) Course & Lab**

Select one of the following practicum and lab courses:

- CHLD 156 Practicum A in Early Childhood Education 2
- and
- CHLD 156L Practicum A Lab 1
- or
- CHLD 158 Practicum B in Early Childhood Education 2
- and
- CHLD 158L Practicum B Lab 1

*Note: In order to obtain a permit from the State, 175 hours of verifiable experience working with young children is also required.*

**Total Units 18**

*Pending chancellor’s office approval

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### Cosmetology

Upon successful completion of 1600 clock hours of applied preparation in lecture and lab experience in Cosmetology 140, 152, 153, 154, 155, 156, 157, 158, 159, 163, and 164, the student will be issued 57 units of credit and will be eligible to take the State Board of Cosmetologist examination to become a licensed cosmetologist.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**REQUIRED COURSEWORK:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tr>
<td>COS 140</td>
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<td>COS 152</td>
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<td>COS 163</td>
<td>4.5</td>
</tr>
<tr>
<td>COS 164</td>
<td>4.5</td>
</tr>
</tbody>
</table>

**Total Units 57**

*Pending chancellor’s office approval

### Dance

A foundational dance background, encompassing a strong emphasis in various dance techniques as well as history, basic kinesiology and performance practicum.

Note that all courses listed must be successfully completed.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**Dance Technique**

<table>
<thead>
<tr>
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<th>Units</th>
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<td>DANC 159</td>
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<td>DANC 160</td>
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<tr>
<td>DANC 161</td>
<td>1</td>
</tr>
<tr>
<td>DANC 162</td>
<td>1</td>
</tr>
<tr>
<td>DANC 259</td>
<td>1</td>
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</table>

*Pending chancellor’s office approval
DANCE 260 Intermediate Jazz Dance I 1
DANCE 262 Intermediate Ballet I 1
DANCE 270 Intermediate Jazz Dance II 1
DANCE 272 Intermediate Ballet II 1

**Dance History**
DANC 102 History of Dance 3

**Kinesiology**
DANC 130 Alignment and Correctives 2

**Performance Practicum**
DANC 289 Dance Concert Production 3

**Total Units 18**

*Pending chancellor’s office approval

**Dental Assisting**
The Dental Assisting Program prepares students for the California State Registered Dental Assistant Examination. This program is accredited by the American Dental Association Commission on Accreditation and the California State Board of Dental Examiners. Upon completion, the graduate is eligible to sit for the California State Registered Dental Assistant Examination and the National Certification Examination.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**REQUIRED COURSEWORK**

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<th>Course</th>
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<td>DENT 101</td>
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<tr>
<td>DENT 102</td>
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<tr>
<td>DENT 121</td>
<td>2</td>
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<tr>
<td>DENT 122</td>
<td>1.5</td>
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<td>DENT 123</td>
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<tr>
<td>DENT 124</td>
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<td>DENT 125</td>
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<td>DENT 201</td>
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<tr>
<td>DENT 202</td>
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<tr>
<td>DENT 203</td>
<td>5.5</td>
</tr>
<tr>
<td>DENT 204</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Units 30**

**DRAFTING TECHNOLOGY**

Drafting includes such majors as electronics, engineering and architecture. Architectural courses, lighting design courses and mechanical drafting courses are offered in alignment with the transfer program.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

Please select 18 “degree appropriate” units from the courses below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRAF 149</td>
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<tr>
<td>DRAF 150</td>
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<tr>
<td>DRAF 151</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 152</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 153</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 154</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 158</td>
<td>2</td>
</tr>
<tr>
<td>DRAF 160</td>
<td>2</td>
</tr>
<tr>
<td>DRAF 161</td>
<td>2</td>
</tr>
<tr>
<td>DRAF 189</td>
<td>3</td>
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<tr>
<td>DRAF 190</td>
<td>3</td>
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<tr>
<td>DRAF 290</td>
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<td>DRAF 291</td>
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<tr>
<td>DRAF 292</td>
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<td>DRAF 293</td>
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<td>DRAF 294</td>
<td>3</td>
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<tr>
<td>DRAF 295</td>
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<tr>
<td>DRAF 296</td>
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<td>DRAF 297</td>
<td>3</td>
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<tr>
<td>DRAF 101</td>
<td>3</td>
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<td>DRAF 102</td>
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<td>DRAF 103</td>
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<tr>
<td>DRAF 109</td>
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<td>DRAF 111</td>
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<td>DRAF 112</td>
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<td>DRAF 198</td>
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<td>DRAF 698A</td>
<td>1</td>
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<td>DRAF 698C</td>
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</tr>
<tr>
<td>DRAF 698D</td>
<td>4</td>
</tr>
<tr>
<td>DRAF 699A</td>
<td>1</td>
</tr>
</tbody>
</table>
### Digital Design

This program prepares students for employment in digital design careers. The integration of traditional art/design and digital media prepares students for employment opportunities in the areas of advertising, multi-media and marketing graphics. This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of "C" and above) of the following major requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 111</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 120</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 150</td>
<td>Computer Art Basics</td>
<td>3</td>
</tr>
<tr>
<td>ART 162</td>
<td>Computer Graphics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 167</td>
<td>World Wide Web Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 188</td>
<td>Multimedia Portfolio and Resume Production</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives. Select 6 units of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 153</td>
<td>Digital Media Production I</td>
<td>3</td>
</tr>
<tr>
<td>ART 157</td>
<td>Digital Color File Manipulation</td>
<td>3</td>
</tr>
<tr>
<td>ART 158</td>
<td>Commercial Graphic Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 163</td>
<td>Computer Graphics II</td>
<td>3</td>
</tr>
<tr>
<td>ART 167</td>
<td>World Wide Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 168</td>
<td>Animation I</td>
<td>3</td>
</tr>
<tr>
<td>ART 253</td>
<td>Digital Media Production II</td>
<td>3</td>
</tr>
<tr>
<td>ART 267</td>
<td>World Wide Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 268</td>
<td>Animation II</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 189</td>
<td>History and Theory of Design</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 190</td>
<td>Computer Imaging Practices for</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Industry and Architecture</td>
<td></td>
</tr>
<tr>
<td>PHTO 101</td>
<td>Basic Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHTO 102</td>
<td>Intermediate Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHTO 215</td>
<td>Electronic Photo Imaging</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units 24**

### Emergency Management and Homeland Security

The Associate of Science degree program will provide both students and currently working emergency managers the required courses and learning domains to apply for employment with emergency management agencies, such as the local cities and county governments in California and non-profit organizations such as the American Red Cross, and federal agencies such as the Department of Homeland Security (FEMA). Additionally, those currently working in the field will have a recognized degree.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMER 162</td>
<td>Principles of Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>EMER 163</td>
<td>Terrorism and Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>EMER 164</td>
<td>Managing Hazardous Materials Incidents</td>
<td>3</td>
</tr>
<tr>
<td>EMER 166</td>
<td>Emergency Planning and Methodology</td>
<td>3</td>
</tr>
<tr>
<td>EMER 167</td>
<td>Practical Applications of Emergency Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Plus a minimum of 6 units selected from the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMER 168</td>
<td>Emergency Operations Center (EOC) Management</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 180</td>
<td>Introduction to Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>HEAL 161</td>
<td>Emergency Medical Technician - Basic</td>
<td>7</td>
</tr>
</tbody>
</table>

**Total Units 21**
*Energy Systems Technology

This degree program prepares students to work in a variety of building energy system professions. Core classes are taken by all students and pathways are designed to create mastery in specialty fields. Careers include design, installation, and maintenance of building systems.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**Complete all of the following Energy System Technology core courses:**

- EST 101 Introduction to Building Systems 1
- EST 150 Green Building Systems Technology 3
- ENGR 100 Principles of Technology 3
- BUS 152 Business Communications 3
- HEAT 170 Air Conditioning I 2
- DRAF 699D Cooperative Education 1 - 4

**Building Systems Design Technician Emphasis**

DRAF 154 Commercial and Industrial Buildings 3
PUB 164 Plan Interpretation and Cost Estimating 3
DRAF 112 Introduction to Computer Aided Design (CAD) and Mechanical Drawing 3
ENGR 125 Introduction to Engineering CAD 2
ELEC 101 Electronics Fundamentals 4

**OR**

**Building Systems Maintenance & Operations Technician Emphasis.**

HEAT 184 Electricity for Heating and Air Conditioning 2
HEAT 186 Control Systems 2
HEAT 188 Trouble Shooting Heating and Air Conditioning 2
ELEC 101 Electronics Fundamentals 4

**Select 18 “degree appropriate” units from the courses below.**

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

<table>
<thead>
<tr>
<th>ART</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 100</td>
<td>Art History and Appreciation - Fundamentals 3</td>
</tr>
<tr>
<td>ART 101</td>
<td>Art History and Appreciation - Ancient 3</td>
</tr>
<tr>
<td>ART 102</td>
<td>Art History and Appreciation - Medieval 3</td>
</tr>
<tr>
<td>ART 103</td>
<td>Art History and Appreciation - Renaissance to Rococo 3</td>
</tr>
<tr>
<td>ART 104</td>
<td>Art History and Appreciation-19th Century Art 3</td>
</tr>
<tr>
<td>ART 105</td>
<td>Art History and Appreciation - Early 20th Century Art 3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art History and Appreciation - Pre-Columbian 3</td>
</tr>
<tr>
<td>ART 110</td>
<td>Introduction to the Visual Arts 3</td>
</tr>
<tr>
<td>ART 111</td>
<td>Beginning Drawing 3</td>
</tr>
<tr>
<td>ART 112</td>
<td>Intermediate Drawing 3</td>
</tr>
<tr>
<td>ART 113</td>
<td>Drawing for Spatial Manipulation 3</td>
</tr>
<tr>
<td>ART 114</td>
<td>Figure Drawing I 3</td>
</tr>
<tr>
<td>ART 115</td>
<td>Figure Drawing II 3</td>
</tr>
<tr>
<td>ART 120</td>
<td>Two-Dimensional Design 3</td>
</tr>
<tr>
<td>ART 121</td>
<td>Three-Dimensional Design 3</td>
</tr>
<tr>
<td>ART 122</td>
<td>Color Theory and Composition 3</td>
</tr>
<tr>
<td>ART 125</td>
<td>Interior Design I 2</td>
</tr>
<tr>
<td>ART 126</td>
<td>Interior Design II 2</td>
</tr>
<tr>
<td>ART 130</td>
<td>Beginning Painting 3</td>
</tr>
<tr>
<td>ART 131</td>
<td>Intermediate Painting 3</td>
</tr>
<tr>
<td>ART 140</td>
<td>Beginning Ceramics 3</td>
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<tr>
<td>ART 141</td>
<td>Intermediate Ceramics 3</td>
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<tr>
<td>ART 142</td>
<td>Experimental Ceramics 3</td>
</tr>
<tr>
<td>ART 143</td>
<td>Ceramic Handbuilding 3</td>
</tr>
<tr>
<td>ART 145</td>
<td>Ceramic Design and Decoration 3</td>
</tr>
<tr>
<td>ART 149</td>
<td>Studio Problems in Ceramics 1</td>
</tr>
<tr>
<td>ART 150</td>
<td>Computer Art Basics 3</td>
</tr>
<tr>
<td>ART 153</td>
<td>Digital Media Production I 3</td>
</tr>
<tr>
<td>ART 157</td>
<td>Digital Color File Manipulation 3</td>
</tr>
<tr>
<td>ART 158</td>
<td>Commercial Graphic Design 3</td>
</tr>
<tr>
<td>ART 162</td>
<td>Computer Graphics I 3</td>
</tr>
<tr>
<td>ART 163</td>
<td>Computer Graphics II 3</td>
</tr>
<tr>
<td>ART 167</td>
<td>World Wide Web Design I 3</td>
</tr>
</tbody>
</table>

*Pending chancellor’s office approval

**Fine and Performing Arts**

The fine and performing arts curriculum offers instruction in theory, practice and history. These three areas of study provide the foundation needed to begin a career in commercial or fine and performing arts. The foundation courses meet prerequisite requirements to UC, CSU systems and four-year art schools.
| ART 168 | Computer Animation I | 3 |
| ART 180 | Beginning Clay Sculpture | 3 |
| ART 181 | Intermediate Clay Sculpture | 3 |
| ART 182 | Advanced Clay Sculpture I | 3 |
| ART 183 | Advanced Clay Sculpture II | 3 |
| ART 184 | Sculpture and Metalwork | 3 |
| ART 188 | Multimedia Portfolio and Resume Production | 3 |
| ART 189 | Art Portfolio and Resume Production | 3 |
| ART 199 | Motion Picture Appreciation | 3 |
| ART 200 | History of Motion Pictures | 3 |
| ART 201 | History of Motion Pictures II | 3 |
| ART 206 | History of Latin American Art | 3 |
| ART 207 | History of Asian Art – China, Korea, and Japan | 3 |
| ART 213 | Advanced Drawing – Pastels and Mixed Media | 3 |
| ART 217 | Head Drawing and Painting | 3 |
| ART 218 | Head Drawing, and Painting II | 3 |
| ART 225 | Illustration | 3 |
| ART 226 | Illustration/Airbrush | 3 |
| ART 234 | Beginning Watercolor Painting | 3 |
| ART 235 | Intermediate Watercolor Painting | 3 |
| ART 236 | Advanced Watercolor Painting | 3 |
| ART 240 | Advanced Ceramics I | 3 |
| ART 241 | Advanced Ceramics II | 3 |
| ART 253 | Digital Media Production II | 3 |
| ART 257 | Computer Illustration and Fine Art II | 3 |
| ART 267 | World Wide Web Design II | 3 |
| ART 268 | Animation II | 3 |
| DANC 102 | History of Dance | 3 |
| DANC 103 | Introduction to Dance | 1 |
| DANC 130 | Alignment and Correctives | 2 |
| DANC 159 | Beginning Tap | 1 |
| DANC 160 | Beginning Jazz Dance | 1 |
| DANC 161 | Beginning Modern Dance | 1 |
| DANC 162 | Beginning Ballet | 1 |
| DANC 163 | Dance Movement for the Performer | 1 |
| DANC 164 | Commercial Dance Techniques | 2 |
| DANC 165 | Summer Dance Conservatory | 1 |
| DANC 171 | Introduction to Choreography/Improvisation | 2 |
| DANC 172 | Composition in Group Forms | 2 |
| DANC 200 | Dance Kinesiology | 3 |
| DANC 259 | Intermediate Tap I | 1 |
| DANC 260 | Intermediate Jazz Dance I | 1 |
| DANC 261 | Intermediate Modern Dance I | 1 |
| DANC 262 | Intermediate Ballet I | 1 |
| DANC 263 | Dance for Musical Theatre | 4 |
| DANC 264 | Popular Dance Techniques | 4 |
| DANC 265 | Musical Staging: Rehearsal and Performance | 2 |
| DANC 266 | Pop Dance: Rehearsal and Performance | 2 |
| DANC 269 | Intermediate Tap II | 1 |
| DANC 270 | Intermediate Jazz Dance II | 1 |
| DANC 271 | Intermediate Modern Dance II | 1 |
| DANC 272 | Intermediate Ballet II | 1 |
| DANC 275 | Performance Ensemble | 1 |
| DANC 279 | Advanced Tap I | 1 |
| DANC 280 | Choreography - Student Project | 1 |
| DANC 281 | Advanced Jazz Dance I | 1 |
| DANC 288 | Citrus Dance Company - Touring Ensemble | 3 |
| DANC 289 | Dance Concert Production | 3 |
| DANC 290 | Dance Academy | 3 |

**MUSIC**

**Commercial Courses**

| MUS 129 | Pop/Rock Ensemble I | 2 |
| MUS 131 | Career Opportunities in the Music Entertainment Industry | 3 |
| MUS 132 | Music Performance for Events | 1 |
| MUS 139 | Pop/Rock Ensemble II | 2 |
| MUS 140 | Electronic Music I | 2 |
| MUS 141 | Electronic Music II | 2 |
| MUS 145 | Pop, Rock, and Jazz Performance Styles | 4 |
| MUS 146 | Pop/Cumbia Ensemble I | 2 |
| MUS 147 | Pop/Salsa Ensemble I | 2 |
| MUS 150 | Professional Performance Techniques | 3 |
| MUS 172 | Styles, Technique, and the “Soul” of Popular Singing | 2 |
| MUS 209 | Musical Theatre Academy Production | 4 |
| MUS 211 | Citrus Singers Tour Ensemble (Pop) | 4 |
| MUS 212 | Citrus Singers Summer Ensemble (Classical) | 4 |
| MUS 213 | Professional Performance Techniques (Vocal) | 3 |
| MUS 214 | Musical Theatre Techniques | 3 |
| MUS 215 | Musical Theatre Production | 4 |
| MUS 220 | Musical Theatre Academy Techniques | 2 |
| MUS 228 | Jazz Ensemble Tour | 7 |
| MUS 290 | Applied Music | 2 |
| MUS 291 | Applied Music / Individual Instruction (Classical) | 2 |
| MUS 292 | Applied Music / Individual Instruction (Pop) | 2 |

**History and Theory Courses**

| MUS 100 | Musicianship | 2 |
| MUS 101 | Musicianship | 2 |
| MUS 102 | Harmony | 3 |
| MUS 103 | Harmony | 3 |
| MUS 110 | History of Music I | 3 |
| MUS 111 | History of Music II | 3 |
MUS 112 Music Fundamentals 3  
MUS 113 History of Rock & Roll 3  
MUS 114 Music Appreciation 3  
MUS 160 Popular Piano Styles 2  
MUS 162 Songwriting 2  
MUS 170 Sight Reading for the Studio 3  
MUS 200 Musicianship 2  
MUS 201 Musicianship 2  
MUS 202 Harmony 3  
MUS 203 Harmony 3  
MUS 218 History of Jazz 3  
MUS 225 Introduction to American Music 3  

**Instrumental Courses**

MUS 105 Elementary Piano I 2  
MUS 106 Elementary Piano II 2  
MUS 107 Jazz Ensemble 4  
MUS 108 Woodwind Techniques 1  
MUS 109 Brass and Percussion Techniques 1  
MUS 122 Beginning Guitar I 2  
MUS 123 Beginning Guitar II 2  
MUS 124 Intermediate Guitar 2  
MUS 125 Intermediate Guitar 2  
MUS 130 Guitar Ensemble 2  
MUS 137 Standard Percussion Instrumentation/Techniques 1  
MUS 138 World Percussion Instrumentation/Techniques 1  
MUS 152 Jazz Combos 1  
MUS 153 Chamber Jazz 4  
MUS 154 Jazz Improvisation 3  
MUS 155 The Professional Pianist 2  
MUS 157 Percussion Ensemble I 1  
MUS 158 World Percussion Ensemble I 1  
MUS 161 Keyboard Skills for the Music Major 3  

**THEATER ARTS - DRAMA**

THEA 101 Introduction to Theatre Arts 3  
THEA 104 Voice and Movement for the Actor 3  
THEA 120 Introduction to Technical Theatre 3  
THEA 125 Technical Production Laboratory 2  
THEA 130 Introduction to Theatrical Scenery 3  
THEA 140 Introduction to Stage Lighting 3  
THEA 150 Introduction to Intelligent Lighting Systems for Theatre 3  
THEA 160 Computer Aided Design for Theatre 4  
THEA 200 Script Analysis - The Art of the Theatre 3  
THEA 201 Acting Fundamentals I 3  
THEA 202 Acting Fundamentals II 3  
THEA 204 Stage and Screenwriting 3  
THEA 210 Rehearsal and Performance 2  
THEA 211 Acting for the Camera 3  
THEA 220 Rehearsal and Performance II 3  
THEA 241 Fundamentals of Stage Direction 3  

THEA 245 Stage Management 3  
THEA 250 Theatre Appreciation 3  
THEA 260 Introduction to Show Production Systems 3  
THEA 284 Acting Shakespeare 3  
THEA 290 Citrus Theatre Company 3  
THEA 292 Special Techniques in Acting 3  
THEA 293 Theatre for Young Audiences 3  
THEA 294 Shakespeare in Production 3  
THEA 698A Cooperative Education 1  
THEA 698B Cooperative Education 2  
THEA 698C Cooperative Education 3  
THEA 698D Cooperative Education 4  
THEA 699A Cooperative Education 1  
THEA 699B Cooperative Education 2  
THEA 699C Cooperative Education 3  
THEA 699D Cooperative Education 4  

**Additional Acceptable Courses**

**Philosophy**

PHIL 101 Great Religions of the World 3  
PHIL 106 Introduction to Philosophy 3  
PHIL 108 Philosophy/Ethics 3  

**English**

ENGL 294 Introduction to Shakespeare 3  

**Humanities**

HUM 101 Humanities 3  
HUM 102 Humanities 3  
HUM 110 Humanities in the 20th Century 3  
HUM 111 Humanities through the Arts 3  

**Total Units 18**

**Language Arts**

Courses in language arts develop the principles and applications of language toward logical thought, clear and precise expression and critical evaluation of communication in whatever symbol system the student uses.

Please select 18 “degree appropriate” units from the courses below.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:
<table>
<thead>
<tr>
<th>COMMUNICATION</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 100 Mass Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>COMM 101 Reporting and Writing News</td>
<td>3</td>
</tr>
<tr>
<td>COMM 103 Freelance Journalism</td>
<td>1</td>
</tr>
<tr>
<td>COMM 104 Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>COMM 136 Cultural History of American Films</td>
<td>3</td>
</tr>
<tr>
<td>COMM 200 Visual Communications</td>
<td>3</td>
</tr>
<tr>
<td>COMM 202 Writing Broadcast News</td>
<td>3</td>
</tr>
<tr>
<td>COMM 230 Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>COMM 240 Newspaper Production Staff</td>
<td>3</td>
</tr>
<tr>
<td>COMM 245 Editorial Board Workshop</td>
<td>2</td>
</tr>
<tr>
<td>COMM 280 Magazine Production Staff</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH</td>
<td></td>
</tr>
<tr>
<td>ENGL 101 Reading and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101H Reading and Composition (Honors)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102 Reading and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 103 Composition and Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 104 Advanced Rhetoric: The Classical Essay</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110 Introduction to Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 210 Creative Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 211 Creative Writing II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 213 Horror Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 251 Introduction to English Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 252 Introduction to English Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 261 Introduction to U.S. American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 262 Introduction to U.S. American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 271 Introduction to World Literature: Ancient Medieval</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 272 Introduction to World Literature: Renaissance Through Modern</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 291 Film as Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 291H Honors Film as Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 293 Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 293H Honors Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 294 Introduction to Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 296 Introduction to Folklore</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 298 Literature of the Bible</td>
<td>3</td>
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<tr>
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<td>SPAN 140 Beginning Conversational Spanish</td>
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<td>SPAN 141 Intermediate Conversational Spanish</td>
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<td>SPAN 150 Spanish for Public Service Personnel</td>
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<td>SPAN 201 Spanish III</td>
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<td>SPAN 210 Intermediate Spanish for Speakers of Spanish</td>
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<tr>
<td>SPAN 211 Reading and Composition for Speakers of Spanish II</td>
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<td>SPCH 101 Public Address</td>
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<tr>
<td>SPCH 101H Public Address (Honors)</td>
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<tr>
<td>SPCH 103 Argumentation and Debate</td>
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<tr>
<td>SPCH 106 Small Group Communication</td>
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<tr>
<td>SPCH 210 Forensics</td>
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<tr>
<td>LIBT 102 Information Sources and Research Methods</td>
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</tbody>
</table>

**Total Units 18**

**Additional Acceptable Courses for an AA in Language Arts**

| CHIN 101 Chinese I | 5 |
| CHIN 102 Chinese II | 5 |
| HUM 101 Humanities | 3 |
| HUM 102 Humanities | 3 |
| HUM 110 Humanities in the 20th Century | 3 |
| HUM 111 Humanities through the Arts | 3 |
| JPN 101 Japanese I | 5 |
| JPN 102 Japanese II | 5 |
**Liberal Arts With Areas of Emphasis**

The associate degree in Liberal Arts is designed for students who wish a broad knowledge of liberal arts and sciences plus additional coursework in an "Area of Emphasis". This area of emphasis would be an ideal choice for students planning on transferring to the California State University or University of California as the student can satisfy their general education requirements, plus focus on transferable course work that relates to majors at CSU or UC. Please consult with a counselor for specific information regarding your intended major at the specific colleges/universality of your choice.

This program is intended for students who are planning to transfer to a 4-year university. Students are required to complete the general education requirements listed on the IGETC or CSU Breadth advising forms, along with a minimum of 18 units in one area of emphasis.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

### Emphasis in Math and Science

These courses emphasize the natural sciences, which examine the physical universe, its life forms and its natural phenomena. Courses in math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra.

Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on human experience. This emphasis includes lower-division coursework that prepares students for majors in science and engineering, math and health related fields.

Choose at least one course from each category (A & B) and then complete additional courses in categories A or B to total 18 units.

#### A. Science

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<tr>
<td>ASTR 115</td>
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<td>ASTR 115H</td>
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<td>BIOL 104</td>
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#### B. Mathematics (Grade of C or better required).

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>MATH 151</td>
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<td>MATH 165</td>
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</tr>
<tr>
<td>MATH 212</td>
<td>4</td>
</tr>
</tbody>
</table>

*Pending chancellor’s office approval*
Emphasis in Arts, Humanities and Communication

These courses emphasize the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments. This emphasis includes lower division coursework that prepares students for possible majors in the areas of fine arts, foreign languages, literature, and philosophy. Choose at least one course from each category (A and B) and then complete additional courses in categories A or B to total 18 units.

A. Arts

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tr>
<td>ART 100</td>
<td>Art History and Appreciation - Fundamentals</td>
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<tr>
<td>ART 101</td>
<td>Art History and Appreciation - Ancient</td>
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<tr>
<td>ART 102</td>
<td>Art History and Appreciation - Medieval</td>
<td>3</td>
</tr>
<tr>
<td>ART 103</td>
<td>Art History and Appreciation - Renaissance to Rococo</td>
<td>3</td>
</tr>
<tr>
<td>ART 104</td>
<td>Art History and Appreciation - 19th Century Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 105</td>
<td>Art History and Appreciation - Early 20th Century Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art History and Appreciation - Pre-Columbian</td>
<td>3</td>
</tr>
<tr>
<td>ART 110</td>
<td>Introduction to the Visual Arts</td>
<td>3</td>
</tr>
<tr>
<td>ART 111</td>
<td>Beginning Drawing</td>
<td>3</td>
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<tr>
<td>ART 112</td>
<td>Intermediate Drawing</td>
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</tr>
<tr>
<td>ART 120</td>
<td>Two-Dimensional Design</td>
<td>3</td>
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<tr>
<td>ART 121</td>
<td>Three-Dimensional Design</td>
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</tr>
<tr>
<td>ART 130</td>
<td>Beginning Painting</td>
<td>3</td>
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<tr>
<td>ART 140</td>
<td>Beginning Ceramics</td>
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<tr>
<td>ART 199</td>
<td>Motion Picture Appreciation</td>
<td>3</td>
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<tr>
<td>ART 200</td>
<td>History of Motion Pictures</td>
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<tr>
<td>ART 201</td>
<td>History of Motion Pictures</td>
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<tr>
<td>ART 206</td>
<td>History of Latin American Art</td>
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<tr>
<td>ART 207</td>
<td>History of Asian Art – China, Korea, and Japan</td>
<td>3</td>
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<tr>
<td>COMM 100</td>
<td>Mass Media and Society</td>
<td>3</td>
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<tr>
<td>COMM 136</td>
<td>Cultural History of American Films</td>
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<tr>
<td>DANC 102</td>
<td>History of Dance</td>
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<tr>
<td>DANC 103</td>
<td>Introduction to Dance</td>
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<tr>
<td>DANC 130</td>
<td>Alignment and Correctives</td>
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<tr>
<td>DANC 159</td>
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<td>Beginning Jazz Dance</td>
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<td>Beginning Modern Dance</td>
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<td>DANC 162</td>
<td>Beginning Ballet</td>
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<td>DANC 259</td>
<td>Intermediate Tap I</td>
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<td>DANC 260</td>
<td>Intermediate Jazz Dance I</td>
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<td>DANC 261</td>
<td>Intermediate Modern Dance I</td>
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<td>DANC 262</td>
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B. Humanities

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>COMM 200</td>
<td>Visual Communications</td>
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<tr>
<td>ENGL 102</td>
<td>Reading and Composition</td>
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<tr>
<td>ENGL 210</td>
<td>Creative Writing I</td>
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<tr>
<td>ENGL 213</td>
<td>Horror Literature</td>
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<tr>
<td>ENGL 251</td>
<td>Introduction to English Literature I</td>
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<tr>
<td>ENGL 252</td>
<td>Introduction to English Literature II</td>
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<tr>
<td>ENGL 261</td>
<td>Introduction to U.S. American Literature I</td>
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<td>ENGL 262</td>
<td>Introduction to U.S. American Literature II</td>
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<tr>
<td>ENGL 271</td>
<td>Introduction to World Literature: Ancient Medieval</td>
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<tr>
<td>ENGL 272</td>
<td>Introduction to World Literature: Renaissance Through Modern</td>
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<tr>
<td>ENGL 291</td>
<td>Film as Literature</td>
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<td>Film as Literature (Honors)</td>
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<tr>
<td>ENGL 293</td>
<td>Children's Literature</td>
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<tr>
<td>ENGL 293H</td>
<td>Children's Literature (Honors)</td>
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<tr>
<td>ENGL 294</td>
<td>Introduction to Shakespeare</td>
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<tr>
<td>ENGL 296</td>
<td>Introduction to Folklore</td>
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<td>HIST 140</td>
<td>History of the American West</td>
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<tr>
<td>HUM 101</td>
<td>Humanities</td>
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<tr>
<td>HUM 101H</td>
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<tr>
<td>HUM 102</td>
<td>Humanities</td>
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<tr>
<td>HUM 110</td>
<td>Humanities in the 20th Century</td>
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<tr>
<td>HUM 111</td>
<td>Humanities through the Arts</td>
<td>3</td>
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</tbody>
</table>
Units

JPN 101 Japanese I 5
JPN 102 Japanese II 5
PHIL 101 Great Religions of the World 3
PHIL 106 Introduction to Philosophy 3
or
PHIL 106H Introduction to Philosophy - Honors 3
PHIL 108 Philosophy/Ethics 3
SPAN 101 Spanish I 5
SPAN 102 Spanish II 5
SPAN 201 Spanish III 5
SPAN 202 Spanish IV 5
SPAN 210 Intermediate Spanish for Speakers of Spanish 5
SPAN 211 Reading and Composition for Speakers of Spanish II 5

Emphasis in Social and Behavioral Sciences

These courses emphasize the perspective, concepts, theories and methodologies of the variety of disciplines that comprise study in the Social Sciences. Students will study human experience in the context of the larger society. Students will study how individuals, social subgroups, and societies operate in relation to each other.

This emphasis includes lower division coursework that prepares students for majors in the areas of Social Behavioral sciences such as Anthropology, History, Political Science, Psychology and Sociology. Choose 18 units of coursework, including 2 or more disciplines, from the following list:

ANTH 210 Introduction to Cultural Anthropology 3
or
ANTH 210H Introduction to Cultural Anthropology (Honors) 3
ANTH 214 Native North America 3
ANTH 216 Sex and Gender in a Cross Cultural Perspective 3
ANTH 220 Introduction to Archaeology 3
SOC 114 Marriage, Family, and Intimate Relations 3
SOC 118 Minorities in America 3
SOC 122 Introduction to Latino Studies 3
SOC 201 Introduction to Sociology 3
or
SOC 201H Introduction to Sociology (Honors) 3
SOC 202 Contemporary Social Problems 3
SOC 203 Criminology 3
SOC 216 Sex and Gender in a Cross Cultural Perspective 3
ECON 100 Survey of Economics 3
ECON 101 Principles of Economics 3
ECON 102 Principles of Economics 3
GEOG 102 Cultural Geography 3
HIST 103 History of World Civilization up to 1500 3
or
HIST 103H History of World Civilization up to 1500 (Honors) 3
HIST 104 History of World Civilization since 1500 3
HIST 105 History of World Civilization - The 20th Century 3
HIST 106 20th Century Western Civilization 3
HIST 107 Political and Social History of the United States 3
or
HIST 107H Political and Social History of the United States (Honors) 3
HIST 108 Political and Social History of the United States 3
or
HIST 108H Political and Social History of the United States (Honors) 3
HIST 109 The World in Conflict - The 20th Century, a History 3
HIST 110 A Survey History of Africa 3
HIST 111 History of the African-Americans 3
HIST 112 History of the African-Americans 3
HIST 120 British Life and Culture 3
HIST 127 Spanish Civilization 3
HIST 130 History of Latin America 3
HIST 139 History of California 3
HIST 140 History of the American West 3
HIST 145 History of Mexico 3
HIST 155 History of the Vietnam War 3
HIST 222 History of World War II 3
LING 101 Introduction to Language and Linguistics 3
POLI 103 American Government and Politics 3
POLI 103H Government of United States (Honors) 3
POLI 104 Introduction to Political Science 3
POLI 105 Comparative Politics 3
POLI 110 Current American Political Affairs 3
POLI 116 International Relations 3
PSY 101 Introduction to Psychology 3
PSY 102 Psychobiology 3
PSY 110 Psychology of Religion I 3
PSY 111 Psychology of Religion II 3
PSY 133 Personal and Social Growth 3
PSY 152 Psychology of Human Relations 3
PSY 203 Research Methods in the Behavioral Sciences 3
PSY 205 Developmental Psychology 3
PSY 206 Child Growth and Development 3
or
PSY 206H Child Growth and Development (Honors) 3
PSY 212 Abnormal Psychology 3
PSY 213  Survey of Drug and Alcohol Use and Abuse  3  
PSY 220  Introduction to Social Psychology  3  
PSY 225  Psychology of Human Sexuality  3  
PSY 226  Psychology of Women  3  
May include up to four units from  
MATH 165  Introductory Statistics  4  
MATH 190  Calculus with Analytic Geometry I  4  

**Emphasis in Technology and Business**  
These courses emphasize the integration of theory and practice within the fields of business and technology. Students will develop the ability to effectively manage and lead organizations. Students will demonstrate an understanding of the place of business and technology within the global economy.

This emphasis includes lower division coursework that prepares students for majors in the areas of Technology and Business such as Accounting, Computer Information Systems, Economics, Finance, Human Resources, International Management and Marketing at a four-year institution. Choose 18 units of coursework, including two or more disciplines, from the following list:  
ACCT 101  Financial Accounting  4  
ACCT 102  Managerial Accounting  4  
BUS 130  Introduction to Business  3  
BUS 160  Business Law and the Legal Environment I  3  
BUS 161  Business Law and the Legal Environment II  3  
CSIS 111  Introduction to Programming Concepts and Design  4  
CSIS 130  Microcomputer Applications I - Introductory MS Office  4  
CSIS 140  Java Programming  4  
CSIS 225  Object Oriented Programming with C++  4  
ECON 101  Principles of Economics  3  
ECON 102  Principles of Economics  3  
REAL 210  Real Estate Principles  3  
May include up to 4 units from the following courses:  
MATH 162  Introductory Mathematical Analysis  4  
MATH 165  Introductory Statistics  4  
MATH 190  Calculus with Analytic Geometry I  4  
MATH 191  Calculus with Analytic Geometry II  4  
**Total Units 18**

*Pending chancellor’s office approval

**Library Technology**  
The library technology program trains students for paraprofessional work in school, academic, research, public and special libraries.

Please select 18 “degree appropriate” units from the courses below.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**Library Technology**  

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<td>LIBT 201</td>
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<td>LIBT 203</td>
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<tr>
<td>LIBT 290</td>
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<td>LIBT 295</td>
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**Total Units 18**

**Additional acceptable courses**  

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<tbody>
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<td>BUS 152</td>
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<td>BUS 175</td>
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<tr>
<td>BUS 192</td>
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<tr>
<td>COMM 104</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 130</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 293</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 296</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units 18**

**Mathematics**  
The purpose of this program is to prepare students for a career in mathematics. The problem solving skills taught in mathematics prepare students for a great number of job opportunities. A four-year degree could lead to employment in academics, a government agency, or an insurance agency. This major can also serve as a basis for careers in engineering, science, data processing, actuarial science, and dispensing opticians. The degree prepares students for transfer into the junior year of baccalaureate degree program in mathematics or related areas such as statistical or actuarial fields.

A course may be used only once to fulfill degree requirements:

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:
Required courses:  
MATH 190 Calculus with Analytic Geometry I  4  
MATH 191 Calculus with Analytic Geometry II  4  
MATH 210 Calculus with Analytic Geometry III  4  

Select two of the following:  
MATH 211 Differential Equations  4  
MATH 212 Introduction to Linear Algebra  4  
PHYS 201 Physics  5  

Total Units 20-21  
*Pending chancellor's office approval

Medium and Heavy Truck Technology  
Prepares students for entry-level occupations in diesel technology, medium and heavy trucks, and provide upgrading within these occupations. Employment positions are available in both the public and the private sector.

Please select 18 “degree appropriate” units from the courses below.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**Medium & Heavy Truck Technology**  
MTRK 105 Diesel and Gasoline Generator Technology  2  
MTRK 130 Diesel Medium/Heavy Truck Technology I  11  
MTRK 190 Introduction to Compressed Natural Gas Vehicles  3  
MTRK 230 Diesel Medium/Heavy Truck Technology II  11  
MTRK 235 Diesel Rebuilding: Detroit Engine-Series 71 and 92  2  
MTRK 240 Diesel Rebuilding: Cummins Engine  2  
MTRK 245 Diesel Rebuilding: Caterpillar Engine  2  
MTRK 265 Basic Heavy Duty Electrical  2  
MTRK 270 Electronic Controls Systems: Detroit Diesel Engine DDEC I, II, III, and IV IS Series Cummins  2  
MTRK 271 Electronic Controls Systems: Detroit Diesel Engine DDEC I, II, III, and IV IS Series Cummins  2  
MTRK 272 Diesel Engine Troubleshooting  2  
MTRK 274 Detroit Diesel Series 60 Engine Overhaul  2  
MTRK 280 Heavy Duty Brake Systems  2  
MTRK 285 Allison Transmissions  2  

Additional acceptable course:  
BUS 170 Small Business Management  3  

Total Units 18

**Music**  
A foundational musical background, including music theory, history, rudimentary piano competency, performance and techniques/application.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**Theory**  
2 units Musicianship and 3 units Harmony

Units  
MUS 100 Musicianship  2  
or  
MUS 101 Musicianship  2  
or  
MUS 200 Musicianship  2  
or  
MUS 201 Musicianship  2  
MUS 102 Harmony  3  
or  
MUS 103 Harmony  3  
or  
MUS 202 Harmony  3  
or  
MUS 203 Harmony  3  

**History**  
Select 1 course from the following:  
MUS 110 History of Music I  3  
MUS 111 History of Music II  3  
MUS 113 History of Rock & Roll  3  
MUS 114 Music Appreciation  3  
MUS 218 History of Jazz  3  
MUS 225 Introduction to American Music  3  

**Piano**  
Select 1 course from the following:  
MUS 105 Elementary Piano I  2  
MUS 106 Elementary Piano II  2  
MUS 161 Keyboard Skills for the Music Major  3  
MUS 205 Intermediate Piano I  2  
MUS 206 Intermediate Piano II  2  
MUS 235 Advanced Piano I  2  
MUS 236 Advanced Piano II  2  

*Pending chancellor’s office approval
### Techniques / Application

Select 2 Units from the following:

<table>
<thead>
<tr>
<th>Units</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MUS 106 Elementary Piano II</td>
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<tr>
<td></td>
<td>MUS 108 Woodwind Techniques</td>
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<td>MUS 109 Brass and Percussion Techniques</td>
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<td>MUS 115 Voice</td>
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<td>MUS 120 Opera Workshop</td>
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<tr>
<td></td>
<td>MUS 122 Beginning Guitar I</td>
<td>2</td>
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<tr>
<td></td>
<td>MUS 123 Beginning Guitar II</td>
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<tr>
<td></td>
<td>MUS 124 Intermediate Guitar</td>
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<td></td>
<td>MUS 125 Intermediate Guitar</td>
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<tr>
<td></td>
<td>MUS 131 Career Opportunities in the Music Entertainment Industry</td>
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<tr>
<td></td>
<td>MUS 137 Standard Percussion Instrumentation/Techniques</td>
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<tr>
<td></td>
<td>MUS 138 World Percussion Instrumentation/Techniques</td>
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<td></td>
<td>MUS 140 Electronic Music I</td>
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</tr>
<tr>
<td></td>
<td>MUS 141 Electronic Music II</td>
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<td></td>
<td>MUS 154 Jazz Improvisation</td>
<td>3</td>
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<tr>
<td></td>
<td>MUS 155 The Professional Pianist</td>
<td>2</td>
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<tr>
<td></td>
<td>MUS 160 Popular Piano Styles</td>
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<tr>
<td></td>
<td>MUS 161 Keyboard Skills for the Music Major</td>
<td>3</td>
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<tr>
<td></td>
<td>MUS 162 Songwriting</td>
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<tr>
<td></td>
<td>MUS 170 Sight Reading for the Studio</td>
<td>3</td>
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<tr>
<td></td>
<td>MUS 172 Styles, Technique, and the &quot;Soul&quot; of Popular Singing</td>
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<tr>
<td></td>
<td>MUS 205 Intermediate Piano I</td>
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<tr>
<td></td>
<td>MUS 206 Intermediate Piano II</td>
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<tr>
<td></td>
<td>MUS 210 Intermediate Voice</td>
<td>2</td>
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<tr>
<td></td>
<td>MUS 215 Musical Theatre Production</td>
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<tr>
<td></td>
<td>MUS 224 Musical Theatre Workshop Production</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MUS 230 Advanced Voice (Classical)</td>
<td>2</td>
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<tr>
<td></td>
<td>MUS 231 Advanced Voice (Popular)</td>
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<tr>
<td></td>
<td>MUS 235 Advanced Piano I</td>
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<td>MUS 236 Advanced Piano II</td>
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<td></td>
<td>MUS 240 Electronic Music III</td>
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</table>

No courses used to satisfy other requirements may be counted in this section. A course may be used only once to fulfill Techniques/Application Requirement.

### Performance

Select 6 Units from the following:

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<thead>
<tr>
<th>Units</th>
<th>Course</th>
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<tr>
<td></td>
<td>MUS 147 Pop/Salsa Ensemble I</td>
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<tr>
<td></td>
<td>MUS 121 Chamber Chorale</td>
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<td></td>
<td>MUS 126 Chamber Singers II</td>
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<td>MUS 153 Chamber Jazz</td>
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<td></td>
<td>MUS 157 Percussion Ensemble I</td>
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<td></td>
<td>MUS 158 World Percussion Ensemble I</td>
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<td></td>
<td>MUS 170 Sight Reading for the Studio</td>
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<td></td>
<td>MUS 207 Laboratory Band</td>
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<tr>
<td></td>
<td>MUS 208 Studio Orchestra</td>
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<tr>
<td></td>
<td>MUS 216 Brass Choir I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MUS 217 Chamber Winds I</td>
<td>4</td>
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<tr>
<td></td>
<td>MUS 226 Brass Choir II</td>
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<tr>
<td></td>
<td>MUS 227 Chamber Winds II</td>
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<tr>
<td></td>
<td>MUS 232 Women’s Ensemble I</td>
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<tr>
<td></td>
<td>MUS 233 Men’s Ensemble</td>
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<tr>
<td></td>
<td>MUS 234 Wind Symphony I</td>
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<td></td>
<td>MUS 242 Women’s Ensemble II</td>
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<tr>
<td></td>
<td>MUS 244 Wind Symphony II</td>
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<td></td>
<td>MUS 252 Fusion Ensemble</td>
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<td></td>
<td>MUS 277 Vocal Ensemble II</td>
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</tbody>
</table>

A course may be used only once to fulfill performance requirement.

**Total Units 18-19**

### Photography

Photography

Prepares students to enter the field of professional photography with the ability to become successful business people and highly valued employees. Career choices include working as commercial advertising photographers, corporate photographers, portrait and wedding photographers, photographic lab technicians.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

Please select 18 “degree appropriate” units from the courses below:

<table>
<thead>
<tr>
<th>Units</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PHTO 101 Basic Photography</td>
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<tr>
<td></td>
<td>PHTO 102 Intermediate Photography</td>
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<tr>
<td></td>
<td>PHTO 103 Advanced Photography</td>
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<tr>
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<td>PHTO 110 Photography Lab</td>
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<td></td>
<td>PHTO 125 Photography as an Art Medium</td>
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<tr>
<td></td>
<td>PHTO 126 Advanced Photography as an Art Medium</td>
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<tr>
<td></td>
<td>PHTO 202 Photojournalism I</td>
<td>3</td>
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<tr>
<td></td>
<td>PHTO 203 Photojournalism II</td>
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<td></td>
<td>PHTO 205 Color Photography</td>
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<td></td>
<td>PHTO 206 Intermediate Color Photography</td>
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<td>PHTO 211 Environmental Photography</td>
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</table>
Units

PHTO 213 Studio Portraiture 3
PHTO 215 Electronic Photo Imaging 3
PHTO 698A Cooperative Education 1
PHTO 698B Cooperative Education 2
PHTO 698C Cooperative Education 3
PHTO 698D Cooperative Education 4
PHTO 699A Cooperative Education 1
PHTO 699B Cooperative Education 2
PHTO 699C Cooperative Education 3
PHTO 699D Cooperative Education 4

Total Units 18

Physical Education

The PE major is organized with multiple goals in mind:
1. To provide individuals with skills in activities that they may enjoy for a lifetime.
2. To provide individuals with an understanding of and a means of maintaining of physical fitness,
3. To provide introductory course work for students wishing to enter the field.

Please select 18 "degree appropriate" units as listed below.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

Select 12-18 Units from the core courses listed below

Core Courses
PE169 Introduction to Coaching 3
PE 170 Fitness for Life 3
PE 171 Health Science 3
PE 172 Introduction to Physical Education 3
PE 173 Nutrition for Fitness 3
PE 174 Introduction to Team Sports 3
PE 175 Introduction to Individual and Dual Sports 3
PE 176 Elementary School Physical Education 2
PE 177 First Aid - Responding to Emergencies 3
PE 182 Care and Prevention of Athletic Injuries 3

2-6 units may be taken from the courses listed below

Theory Courses
PE 184 Volleyball Theory 2
PE 185 Softball Theory 2
PE 186 Baseball Theory 2
PE 187 Techniques and Strategy of Intercollegiate Football 2
PE 188 Basketball Theory 2

Varsity Sport Courses Units

PE 209 Women's Varsity Soccer 2
PE 211 Women's Varsity Volleyball 2
PE 212 Women's Varsity Swimming 2
PE 213 Women's Varsity Basketball 2
PE 214 Women's Varsity Softball 2
PE 215 Women's Varsity Track and Field 2
PE 216 Women's Varsity Cross Country 2
PE 220 Men's Varsity Football 2
PE 221 Men's Varsity Basketball 2

Biological Science

BIOL 200 Human Anatomy 4
BIOL 201 Human Physiology 4

Total Units 18

Public Works

These courses prepare new personnel for public works occupations and provide upgrading within these occupations. Job opportunities exist in both the public and private sectors.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

Please select 18 “degree appropriate” units from the courses below.

Public Works Courses Units

PUB 150 Public Works I 3
PUB 151 Street Construction and Maintenance 3
PUB 154 Soils - Trenching and Grading 3
PUB 155 Public Works Inspection 3
PUB 156 Concrete Structures and Inspection 3
PUB 157 Asphalt and Portland Cement 3
PUB 158 Municipal and Urban Tree 3
PUB 160 Public Administration 3
PUB 161 California Occupational Safety and Health 3
PUB 162 Traffic Control Standards, Practices, and Policies 3
PUB 164 Plan Interpretation and Cost Estimating 3
PUB 165 Environmental Management in Public Works 3
PUB 166 Supervision in Public Works 3

Total Units 18
**Recording Technology**

Recording Technology is a degree in audio production and post production for the entertainment industry. It includes studies in sound for film, record production, live sound and music business. All courses are required.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**Core Audio Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>REC 105</td>
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<tr>
<td>REC 115</td>
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<tr>
<td>REC 205</td>
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</tr>
<tr>
<td>REC 215</td>
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**Digital Audio Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>REC 125</td>
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<tr>
<td>REC 225</td>
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**Other Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>REC 135</td>
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<tr>
<td>REC 145</td>
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<tr>
<td>REC 235</td>
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<tr>
<td>REC 245</td>
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**Total Units 36**

**SECOND SEMESTER**

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<tbody>
<tr>
<td>RNRS 193</td>
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<tr>
<td>RNRS 194</td>
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<tr>
<td>RNRS 195</td>
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**SECOND YEAR - MAJOR REQUIREMENTS**

**THIRD SEMESTER**

<table>
<thead>
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<th>Course</th>
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<tr>
<td>RNRS 201</td>
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<td>RNRS 203</td>
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**FOURTH SEMESTER**

<table>
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<tr>
<td>RNRS 251</td>
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<tr>
<td>RNRS 252</td>
<td>2</td>
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<tr>
<td>RNRS 290</td>
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**Total Units 41**

**Social and Behavioral Sciences**

Courses in the social and behavioral sciences focus on people as members of society. They assist in developing an awareness of the methods of inquiry used by the social and behavioral sciences. Critical thinking is stimulated about the ways people act and have acted in response to their societies, and appreciation is developed of how societies and social groups operate. This category includes introductory or integrative survey courses in cultural anthropology, economics, history, political science, psychology, sociology, cultural geography, and related disciplines.

Please select 18 “degree appropriate” units from the courses below.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**ANTHROPOLOGY**

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<tr>
<td>ANTH 210</td>
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<tr>
<td>ANTH 210H</td>
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<tr>
<td>ANTH 212</td>
<td>3</td>
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<td>ANTH 212L</td>
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<td>ANTH 214</td>
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<tr>
<td>ANTH 216</td>
<td>3</td>
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<tr>
<td>ANTH 218H</td>
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<td>ANTH 220</td>
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**ECONOMICS**

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<td>ECON 100</td>
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<tr>
<td>ECON 101</td>
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<tr>
<td>ECON 101H</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
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<tr>
<td>CULTURAL GEOGRAPHY</td>
<td>Units</td>
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<tr>
<td>GEOG 102 Cultural Geography</td>
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<th>Units</th>
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<tr>
<td>HIST 103 History of World Civilization up to 1500</td>
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</tr>
<tr>
<td>HIST 104 History of World Civilization since 1500</td>
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<tr>
<td>HIST 105 History of World Civilization - The Modern Period</td>
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<tr>
<td>HIST 106 20th Century Western Civilization</td>
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<tr>
<td>HIST 107 Political and Social History of the United States</td>
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</tr>
<tr>
<td>HIST 107H Political and Social History of the United States (Honors)</td>
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</tr>
<tr>
<td>HIST 108 Political and Social History of the United States</td>
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<tr>
<td>HIST 108H Political and Social History of the United States (Honors)</td>
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<tr>
<td>HIST 109 The World in Conflict - The 20th Century, a History</td>
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<tr>
<td>HIST 110 A Survey History of Africa</td>
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<tr>
<td>HIST 111 History of the African-Americans</td>
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<tr>
<td>HIST 112 History of the African-Americans</td>
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<tr>
<td>HIST 120 British Life and Culture</td>
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<td>HIST 127 Spanish Civilization</td>
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<tr>
<td>HIST 130 History of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 139 History of California</td>
<td>3</td>
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<tr>
<td>HIST 140 History of the American West</td>
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</tr>
<tr>
<td>HIST 145 History of Mexico</td>
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<tr>
<td>HIST 155 History of the Vietnam War</td>
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<td>HIST 222 History of World War II</td>
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<th>CHILD DEVELOPMENT</th>
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<tr>
<td>CHLD 100 Introduction to Education and Teaching</td>
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<td>CHLD 106 Parenting Your Preschool Child</td>
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<td>CHLD 108 Model Approach to Partnership in Parenting</td>
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<td>CHLD 110 Early Childhood Development</td>
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<td>CHLD 111 Child Development Youth - Adolescence</td>
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<tr>
<td>CHLD 112 Principles of Early Childhood Education I</td>
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<td>CHLD 114 Home-Child-Community Relations</td>
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<td>CHLD 118 Effective Family Child Care Practices</td>
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<td>CHLD 120 Literacy for Children</td>
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<td>CHLD 121 Art for Children</td>
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<td>CHLD 122 Music and Rhythms for Children</td>
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<td>CHLD 123 Science Experiences for Children</td>
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<tr>
<td>CHLD 124 Mathematics for Children</td>
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<tr>
<td>CHLD 130 Infant Development and Group Care</td>
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<tr>
<td>CHLD 134 Parent-Child Interaction</td>
<td>3</td>
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<td>CHLD 140 Before/After-School Programs</td>
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<td>CHLD 142 Parent Teacher Partnership</td>
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<tr>
<td>CHLD 144 Health, Safety and Nutrition for Young Children</td>
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<tr>
<td>CHLD 145 Child Abuse Education</td>
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<td>CHLD 147 Computers In Early Childhood Programs</td>
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<td>CHLD 150 Multi-Culture Anti-Bias Classrooms</td>
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<td>CHLD 154 Observing and Recording Behavior</td>
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<td>CHLD 156 Practicum A in Early Childhood Education</td>
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<td>CHLD 156L Practicum A Lab</td>
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<tr>
<td>CHLD 158 Practicum B in Early Childhood Education</td>
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<td>CHLD 158L Practicum B Lab</td>
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<td>CHLD 160 Perceptual Motor and Movement Activities</td>
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<td>CHLD 164 The Child with Special Needs</td>
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<td>CHLD 166 Speech and Language Development and Disorders</td>
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<td>CHLD 168 Developmental Risk: Infants and Toddlers</td>
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<tr>
<td>CHLD 169 Managing Challenging and Disruptive Behaviors</td>
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<tr>
<td>CHLD 181 Infant and Toddler Caregiver: Relationships</td>
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<tr>
<td>CHLD 182 Infant and Toddler Caregiver: Socialization and Emotional Development</td>
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<tr>
<td>CHLD 183 Infant and Toddler Caregiver: Learning and Development</td>
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<tr>
<td>CHLD 184 Infant and Toddler Caregiver: Environments and Routines</td>
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<td>CHLD 190 Administration of Early Childhood Education Programs I</td>
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<tr>
<td>CHLD 191 Administration of Early Childhood Education Programs II</td>
<td>3</td>
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<tr>
<td>CHLD 194 Personnel Issues in Early Childhood Education Programs</td>
<td>3</td>
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<tr>
<td>CHLD 220 Early Childhood Education Mentor Teacher Practices</td>
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<tr>
<td>HUM 101 Humanities</td>
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<tr>
<td>HUM 101H Humanities</td>
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</tr>
<tr>
<td>HUM 102 Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 110 Humanities in the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 109 Critical Reasoning and Writing</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 110 Philosophy/Logic</td>
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*Pending chancellor’s office approval

Lab courses are in bold.
### PSYCHOLOGY

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<th>Title</th>
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<tbody>
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<td>PSY 101</td>
<td>Introduction to Psychology</td>
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<tr>
<td>PSY 102</td>
<td>Psychobiology</td>
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<tr>
<td>PSY 103</td>
<td>Elementary Statistics</td>
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<td>PSY 110</td>
<td>Psychology of Religion I</td>
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<tr>
<td>PSY 111</td>
<td>Psychology of Religion II</td>
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<tr>
<td>PSY 133</td>
<td>Personal and Social Growth</td>
<td>3</td>
</tr>
<tr>
<td>PSY 152</td>
<td>Psychology of Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>PSY 203</td>
<td>Research Methods in the Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PSY 205</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 206</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY 206H</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY 212</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 213</td>
<td>Survey of Drug and Alcohol Use and Abuse</td>
<td>3</td>
</tr>
<tr>
<td>PSY 220</td>
<td>Introduction to Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 225</td>
<td>Psychology of Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>PSY 226</td>
<td>Psychology of Women</td>
<td>3</td>
</tr>
<tr>
<td>PSY 250</td>
<td>Honors Topics Seminar</td>
<td>0.5</td>
</tr>
</tbody>
</table>

### SOCIOLOGY

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 114</td>
<td>Marriage, Family, and Intimate Relations</td>
<td>3</td>
</tr>
<tr>
<td>SOC 118</td>
<td>Minorities in America</td>
<td>3</td>
</tr>
<tr>
<td>SOC 122</td>
<td>Introduction to Latino Studies</td>
<td>3</td>
</tr>
<tr>
<td>SOC 201</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 201H</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 202</td>
<td>Contemporary Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>SOC 203</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 216</td>
<td>Sex and Gender in a Cross Cultural Perspective</td>
<td>3</td>
</tr>
<tr>
<td>SOC 218H</td>
<td>Honors Presentation Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Units 18**

### Theatre Arts - Acting

**A fundamental exploration in the area of Theatre Arts focusing on Performance Styles and Acting Techniques.**

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**REQUIRED CORE COURSES:**

- THEA 101 Introduction to Theatre Arts 3
- THEA 120 Introduction to Technical Theatre, TV and Film 3
- THEA 202 Acting Fundamentals II 3

*Note: Theatre Arts 201 is a pre-requisite for Theatre Arts 202.*

**Play Performance**

Select 3 Units from the following:

- THEA 210 Rehearsal and Performance I 3
- THEA 220 Rehearsal and Performance II 3

**Acting Techniques**

Select 6 Units from the following:

- THEA 104 Voice and Movement for the Actor 3
- THEA 211 Acting for the Camera 3
- THEA 284 Acting Shakespeare 3
- THEA 292 Special Techniques in Acting 3

* A course may be used only once to fulfill degree requirement.

**Speciality Courses**

Select 1 course from the following:

- THEA 241 Fundamentals of Stage Direction 3
- THEA 293 Theatre for Young Audiences 3
- THEA 294 Shakespeare in Production 3

**Total Units 21**
**Theatre Arts - Technical Theatre Design**

A fundamental exploration in the area of Theatre Arts focusing on Technical Theatre and Design. Career paths include educator, master electrician, stage technician, moving light programmer, scenic designer, lighting designer, art director, technical director and stage manager for theatre, television, film and theme parks.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of C and above) of the following major requirements:

**REQUIRED CORE COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 101</td>
<td>3</td>
</tr>
<tr>
<td>THEA 120</td>
<td>3</td>
</tr>
<tr>
<td>THEA 201</td>
<td>3</td>
</tr>
</tbody>
</table>

**Fundamentals of Design**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 130</td>
<td>3</td>
</tr>
<tr>
<td>THEA 140</td>
<td>3</td>
</tr>
</tbody>
</table>

**Technical Theatre Electives**

Three Units of

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 125</td>
<td>2</td>
</tr>
<tr>
<td>THEA 150</td>
<td>3</td>
</tr>
<tr>
<td>THEA 160</td>
<td>4</td>
</tr>
<tr>
<td>THEA 245</td>
<td>3</td>
</tr>
<tr>
<td>THEA 260</td>
<td>3</td>
</tr>
</tbody>
</table>

*Pending chancellor’s office approval

**Vocational Nursing**

Successful completion of the program studies allows the student to become eligible to take the State Board Examination for Licensed Vocational Nurses (NCLEX).

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of "C" and above) of the following major requirements:

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VNRS 150</td>
<td>3</td>
</tr>
<tr>
<td>VNRS 151L</td>
<td>3</td>
</tr>
<tr>
<td>VNRS 152</td>
<td>1</td>
</tr>
<tr>
<td>VNRS 153</td>
<td>1</td>
</tr>
<tr>
<td>VNRS 154</td>
<td>1.5</td>
</tr>
<tr>
<td>VNRS 155</td>
<td>1</td>
</tr>
<tr>
<td>VNRS 160</td>
<td>3</td>
</tr>
<tr>
<td>VNRS 161L</td>
<td>3</td>
</tr>
<tr>
<td>VNRS 162</td>
<td>1</td>
</tr>
<tr>
<td>VNRS 163</td>
<td>1</td>
</tr>
<tr>
<td>VNRS 164</td>
<td>1.5</td>
</tr>
<tr>
<td>VNRS 165</td>
<td>1</td>
</tr>
<tr>
<td>VNRS 170</td>
<td>7</td>
</tr>
<tr>
<td>VNRS 171L</td>
<td>7</td>
</tr>
<tr>
<td>VNRS 172</td>
<td>2</td>
</tr>
<tr>
<td>VNRS 173</td>
<td>2</td>
</tr>
<tr>
<td>VNRS 180</td>
<td>3</td>
</tr>
<tr>
<td>VNRS 181</td>
<td>1</td>
</tr>
<tr>
<td>VNRS 182</td>
<td>4</td>
</tr>
<tr>
<td>VNRS 183</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS 50**

**Water Technology**

This program is designed to prepare students who wish to seek employment in the public water supply industry or qualify for a more responsible position within the industry. These courses will be helpful to students who wish to prepare for the T1, T2, T3, T4 and T5 Water Treatment Operator and D1, D2, D3, D4, and D5 Water Distribution Operator certification examinations given by the California Public Health Department. Coursework also provides contact hours for Operator certification maintenance requirements.

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of "C" and above) of the following major requirements:

**Please select 18 “degree appropriate” units from the courses below:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATR 150</td>
<td>3</td>
</tr>
<tr>
<td>WATR 151</td>
<td>3</td>
</tr>
<tr>
<td>WATR 153</td>
<td>3</td>
</tr>
<tr>
<td>WATR 155</td>
<td>1</td>
</tr>
<tr>
<td>WATR 156</td>
<td>3</td>
</tr>
<tr>
<td>WATR 157</td>
<td>3</td>
</tr>
<tr>
<td>WATR 162</td>
<td>3</td>
</tr>
<tr>
<td>WATR 165</td>
<td>1</td>
</tr>
</tbody>
</table>

**TOTAL UNITS 18**
What Career and Technical Programs Does Citrus College Offer?
Programs of Study Leading to a Certificate of Achievement

Citrus College grants certificates of achievement in a variety of subject areas. These certificates of achievement may be used to verify a student’s proficiency in the skills and knowledge needed for entry-level employment or for career advancement.

To earn a certificate of achievement, a student must satisfactorily complete 12 units or more in a specific sequence of required courses. At least 50% of these required courses must be completed at Citrus College.

Programs of Study Leading to a Certificate of Achievement
Administration of Justice
Audio Recording Technology
Automotive Technology
  Automotive Service, Diagnosis and Repair - Master Technician
  Automotive Service, Diagnosis and Repair - Toyota/Lexus/Scion Technician
  Automotive Service, Diagnosis and Repair - Undercar Drivetrain Specialist
  Automotive Service, Diagnosis and Repair - Underhood Specialist
High Performance Institute
Business
  Accounting
  Administrative Office Manager
  Management
  Marketing
  Office Occupations
  Secretarial
  Word Processing
Ceramics - One Year
Child Development Master Teacher
Child Development Master Teacher - Early Intervention
Child Development Teacher
Commercial Dance
Cosmetology
Dental Assisting
Drafting
  Drafting Technology - CAD
  Advanced Drafting Technology - CAD
Architectural Design
  Architectural Drafting - CAD
Computer Generated Imagery
Electronics Technician

Emergency Management
Energy Systems Technology
  *Building Systems Design Technology
  *Building Systems Maintenance and Operations Technology
Esthetician
Forestry
Heating and Air Conditioning
Information Technology
Library Technology
Medium and Heavy Diesel Truck Technology
*Motorcycle Service, Diagnosis, and Repair Technician
Photography
Public Works I
Public Works II
Public Works/Landscape Management
Theater
  Emerging Theatre Technologies
Vocational Nursing
Water Technology
Web Design
  Advanced Digital and Web Design
  Digital and Web Design

*Pending chancellor’s office approval
ADMINISTRATION OF JUSTICE
Administration of Justice offers men and women a career of personal challenge and rewarding public service. A great need exists for intelligent, well-educated personnel with a firm commitment toward professional improvement in the justice system. Citrus College offers courses to prepare students for employment and promotion in the criminal justice system.

REQUIRED COURSES:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJ 101</td>
<td>Introduction to the Administration of Justice</td>
<td>3</td>
</tr>
<tr>
<td>AJ 102</td>
<td>Concepts of Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>AJ 103</td>
<td>Legal Aspects of Evidence</td>
<td>3</td>
</tr>
<tr>
<td>AJ 109</td>
<td>Criminal Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AJ 112</td>
<td>Community Relations</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 100</td>
<td>Fundamentals of Composition</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ENGL 101 Reading and Composition</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AJ 123 Writing for Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>AJ 133 Correctional Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVES:
One AJ course (3 units) 3

EMPLOYMENT OPPORTUNITY:
Entry-level police cadet/police officer

Total Units 21

AUDIO RECORDING TECHNOLOGY
This is a one year audio recording program intended to teach you the basis of how to engineer any kind of music, from hip-hop to classical to movie scenes.

REQUIRED COURSES:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>REC 105</td>
<td>Fundamentals of Audio Technology</td>
<td>4</td>
</tr>
<tr>
<td>REC 115</td>
<td>Recording Studio Workshop I</td>
<td>4</td>
</tr>
<tr>
<td>REC 125</td>
<td>Digital Audio Technology I</td>
<td>3</td>
</tr>
<tr>
<td>REC 135</td>
<td>Live Sound Reinforcement</td>
<td>4</td>
</tr>
<tr>
<td>REC 145</td>
<td>Critical Listening Skills for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>REC 205</td>
<td>Advanced Audio Technology</td>
<td>4</td>
</tr>
<tr>
<td>REC 215</td>
<td>Recording Studio Workshop II</td>
<td>4</td>
</tr>
<tr>
<td>REC 225</td>
<td>Digital Audio Technology II</td>
<td>4</td>
</tr>
<tr>
<td>REC 235</td>
<td>Acoustics for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>REC 245</td>
<td>Music Business/Audio Careers</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 36

AUTOMOTIVE TECHNOLOGY
Automotive Service, Diagnosis & Repair - Master Technician
The courses listed in the Automotive Service, Diagnosis and Repair - Master Technician certificate meet the National Automotive Technicians' Education Foundation Standards and are selected to provide a comprehensive set of job skills needed in the automotive industry. In addition to improving the student’s employability, the skills developed in the program will enhance their ability to become an Automotive Service Excellence (ASE) Master Technician. The certificate is designed to prepare an individual for employment or provide the skills needed for career advancement in the automotive industry.

Required courses within the major:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 101</td>
<td>Fundamentals of Automotive Service, Diagnosis and Repair</td>
<td>5</td>
</tr>
<tr>
<td>AUTO 151</td>
<td>Engine Service, Diagnosis and Repair</td>
<td>5</td>
</tr>
<tr>
<td>AUTO 154</td>
<td>Chassis Service, Diagnosis, and Repair</td>
<td>8</td>
</tr>
<tr>
<td>AUTO 156</td>
<td>Automotive Electrical/Electronic Systems I</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 162</td>
<td>Drivetrain Service, Diagnosis and Repair</td>
<td>8</td>
</tr>
<tr>
<td>AUTO 166</td>
<td>Automotive Electrical/Electronic Systems II</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 167</td>
<td>Automotive HVAC Service, Diagnosis &amp; Repair</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 168</td>
<td>Engine Control Systems Service, Diagnosis and Repair</td>
<td>8</td>
</tr>
</tbody>
</table>

Plus four (4) units of the following:
AUTO 230 Automotive Service and Repair Work Experience 4

Required courses outside the major:
Select one (1) of the following language arts courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 100</td>
<td>Fundamentals of Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Reading and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ESL 100</td>
<td>Fundamentals of Composition</td>
<td>4</td>
</tr>
<tr>
<td>ESL 101</td>
<td>Reading and Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one (1) of the following mathematics courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 115</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 130</td>
<td>Elementary Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Students may substitute a higher level math course.

Total Units 54-56
### Automotive Service, Diagnosis and Repair - Toyota/Lexus/Scion Technician

The courses listed in the Automotive Service, Diagnosis and Repair - Toyota/Lexus/Scion Technician certificate are selected to provide a comprehensive set of job skills needed by Toyota, Lexus and Scion technicians. In addition to improving the student’s employability, the skills developed in each course will enhance their ability to become Automotive Service Excellence (ASE) certified in all eight ASE areas. The certificate is designed to prepare an individual for employment or provide the skills needed for career advancement.

#### Required courses within the major

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 101</td>
<td>Fundamentals of Automotive Service, Diagnosis and Repair</td>
<td>5</td>
</tr>
<tr>
<td>AUTO 167</td>
<td>Automotive HVAC Service, Diagnosis &amp; Repair</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 281</td>
<td>Advanced Toyota Certified Technician Training</td>
<td>7</td>
</tr>
</tbody>
</table>

*Note: AUTO 281 is a capstone course and must be taken after all other major coursework is completed.*

Choose one of the following electrical options:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 146</td>
<td>Automotive Electrical Systems</td>
</tr>
<tr>
<td>AUTO 156</td>
<td>Automotive Electrical/Electronic Systems I</td>
</tr>
</tbody>
</table>

Choose one (1) of the following engine repair courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 141</td>
<td>Engine Mechanical Systems</td>
</tr>
<tr>
<td>AUTO 151</td>
<td>Engine Service, Diagnosis and Repair</td>
</tr>
</tbody>
</table>

Choose one (1) of the following chassis courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 144</td>
<td>Chassis Systems</td>
</tr>
<tr>
<td>AUTO 154</td>
<td>Chassis Service, Diagnosis, and Repair</td>
</tr>
</tbody>
</table>

Choose one (1) of the following drivetrain courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 142</td>
<td>Drivetrain Systems</td>
</tr>
<tr>
<td>AUTO 162</td>
<td>Drivetrain Service, Diagnosis and Repair</td>
</tr>
</tbody>
</table>

Choose one (1) of the following engine control courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 148</td>
<td>Engine Control Systems</td>
</tr>
<tr>
<td>AUTO 168</td>
<td>Engine Control Systems Service, Diagnosis and Repair</td>
</tr>
</tbody>
</table>

Plus four (4) units of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 230</td>
<td>Automotive Service and Repair Work Experience</td>
</tr>
</tbody>
</table>

### Required courses outside the major

Select one (1) of the following language arts courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 100</td>
<td>Fundamentals of Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Reading and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ESL 100</td>
<td>Fundamentals of Composition</td>
<td>4</td>
</tr>
<tr>
<td>ESL 101</td>
<td>Reading and Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one (1) of the following mathematics courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 115</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 130</td>
<td>Elementary Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

*Students may substitute a higher level math course*

**Total Units 48-63**

### Automotive Service, Diagnosis & Repair - Undercar/Drivetrain Specialist

The courses listed in the Undercar/Drivetrain Specialist certificate are selected to provide a comprehensive set of job skills needed for a technician specializing in undercar/drivetrain service, diagnosis and repair. In addition to improving the student’s employability, the skills developed in each course will enhance their ability to become Automotive Service Excellence (ASE) A2, A3, A4 and A5 certified. The certificate is designed to prepare an individual for employment or provide the skills needed for career advancement in the automotive industry.

#### Required Course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 101</td>
<td>Fundamentals of Automotive Service, Diagnosis and Repair</td>
</tr>
</tbody>
</table>

**Plus**

Choose one (1) of the following electrical courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 146</td>
<td>Automotive Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 156</td>
<td>Automotive Electrical/Electronic Systems I</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose one (1) of the following chassis courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 144</td>
<td>Chassis Systems</td>
<td>5</td>
</tr>
<tr>
<td>AUTO 154</td>
<td>Chassis Service, Diagnosis, and Repair</td>
<td>8</td>
</tr>
</tbody>
</table>

Choose one (1) of the following drivetrain courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 142</td>
<td>Drivetrain Systems</td>
</tr>
<tr>
<td>AUTO 162</td>
<td>Drivetrain Service, Diagnosis and Repair</td>
</tr>
</tbody>
</table>

**Total Units 19-25**
Automotive Service, Diagnosis & Repair - Underhood Specialist

The courses listed in the Underhood Specialist certificate are selected to provide a comprehensive set of job skills needed for a technician specializing in underhood service, diagnosis and repair. In addition to improving the student’s employability, the skills developed in each course will enhance their ability to become Automotive Service Excellence (ASE) A1, A6, A7 and A8 certified. The certificate is designed to prepare an individual for employment or provide the skills needed for career advancement in the automotive industry.

REQUIRED COURSES:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 101</td>
<td>Fundamentals of Automotive Service, Diagnosis and Repair</td>
<td>5</td>
</tr>
<tr>
<td>AUTO 167</td>
<td>Automotive HVAC Service, Diagnosis &amp; Repair</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus

Choose one (1) of the following electrical courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 146</td>
<td>Automotive Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 156</td>
<td>Automotive Electrical/Electronic Systems I</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose one (1) of the following engine repair courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 141</td>
<td>Engine Mechanical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 151</td>
<td>Engine Service, Diagnosis and Repair</td>
<td>5</td>
</tr>
</tbody>
</table>

Choose one (1) of the following engine control courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 148</td>
<td>Engine Control Systems</td>
<td>5</td>
</tr>
<tr>
<td>AUTO 168</td>
<td>Engine Control Systems Service, Diagnosis and Repair</td>
<td>8</td>
</tr>
</tbody>
</table>

**Total Units: 21-25**

High Performance Institute

This program is designed to prepare students who wish to seek employment in the automotive technology industry or qualify for a more responsible position within the field.

REQUIRED COURSES:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 290</td>
<td>Introduction to the Automotive Aftermarket</td>
<td>1</td>
</tr>
<tr>
<td>AUTO 295</td>
<td>Engine Design</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 296</td>
<td>Cylinder Head Development</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 291</td>
<td>Engine Performance Enhancements and Tuning</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 292</td>
<td>Advanced Drivetrain Development</td>
<td>2</td>
</tr>
<tr>
<td>AUTO 293</td>
<td>Advanced Steering, Suspension Geometry, Brake Design and Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 298</td>
<td>Special Projects</td>
<td>2</td>
</tr>
</tbody>
</table>

Plus three of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 100</td>
<td>Fundamentals of Composition</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 130</td>
<td>Microcomputer Applications I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 115</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 130</td>
<td>Elementary Algebra</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 110</td>
<td>Introduction to College Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

Additional required studies - minimum of two classes:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 130</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 132</td>
<td>Ethics in Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 170</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units: 35-37**

**BUSINESS**

**Accounting**

The Accounting Program encompasses an area of study which includes basic accounting, financial and managerial accounting principles, income tax accounting and accounting general ledger software. The Accounting Program within the Citrus College Business Department conducts the program with an outstanding faculty to prepare students for professional careers, transfer, and/or personal use. The program combines classroom lectures, demonstrations and a wide use of technology to ensure relevant training.

REQUIRED COURSES:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 102</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS 130</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 132</td>
<td>Ethics in Business</td>
<td>3</td>
</tr>
<tr>
<td>OFF 101</td>
<td>Introduction to Microsoft Office Applications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OFF 120</td>
<td>Excel Spreadsheet</td>
<td>2</td>
</tr>
</tbody>
</table>

Plus one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 146</td>
<td>Personal Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS 150</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>BUS 152</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUS 160</td>
<td>Business Law and the Legal Environment I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units: 19-20**
<table>
<thead>
<tr>
<th>Administrative Office Manager</th>
<th>Units</th>
<th>Office Occupations</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REQUIRED COURSES:</strong> ACCT 100 Accounting 3</td>
<td></td>
<td>ACCT 100 Accounting 3</td>
<td></td>
</tr>
<tr>
<td>or ACCT 101 Financial Accounting 4</td>
<td></td>
<td>or ACCT 101 Financial Accounting 4</td>
<td></td>
</tr>
<tr>
<td>OFF 120 Excel Spreadsheet 2</td>
<td></td>
<td>BUS 132 Ethics in Business 3</td>
<td></td>
</tr>
<tr>
<td>BUS 130 Introduction to Business 3</td>
<td></td>
<td>OFF 101 Introduction to Microsoft Office Applications 3</td>
<td></td>
</tr>
<tr>
<td>BUS 132 Ethics in Business 3</td>
<td></td>
<td>OFF 201 Introduction to Electronic Commerce for Business 2</td>
<td></td>
</tr>
<tr>
<td>BUS 150 Business English 3</td>
<td></td>
<td>OFF 215 Introduction to Microsoft Outlook 2</td>
<td></td>
</tr>
<tr>
<td>or BUS 152 Business Communications 3</td>
<td></td>
<td>OFF 260 Computer Keyboarding and Document Processing 3</td>
<td></td>
</tr>
<tr>
<td>BUS 160 Business Law and the Legal Environment I 3</td>
<td></td>
<td>OFF 281 Filing and Records Management 3</td>
<td></td>
</tr>
<tr>
<td>BUS 176 Management for the Office Professional 3</td>
<td></td>
<td>OFF 291 Telecommunications for the Office 2</td>
<td></td>
</tr>
<tr>
<td>OFF 101 Introduction to Microsoft Office Applications 3</td>
<td></td>
<td><strong>Total Units 21-22</strong></td>
<td></td>
</tr>
<tr>
<td>OFF 201 Introduction to Electronic Commerce for Business 2</td>
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<td></td>
</tr>
<tr>
<td>OFF 291 Telecommunications for the Office 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OFF 294 Beginning Microsoft Word 2</td>
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<td></td>
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<tr>
<td><strong>Total Units 29-30</strong></td>
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<table>
<thead>
<tr>
<th>Management</th>
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<tbody>
<tr>
<td><strong>REQUIRED COURSES:</strong> ACCT 101 Financial Accounting 4</td>
<td></td>
<td><strong>REQUIRED COURSES:</strong> BUS 130 Introduction to Business 3</td>
<td></td>
</tr>
<tr>
<td>BUS 130 Introduction to Business 3</td>
<td></td>
<td>BUS 150 Business English 3</td>
<td></td>
</tr>
<tr>
<td>BUS 132 Ethics in Business 3</td>
<td></td>
<td>BUS 152 Business Communications 3</td>
<td></td>
</tr>
<tr>
<td>BUS 152 Business Communications 3</td>
<td></td>
<td>BUS 176 Management for the Office Professional 3</td>
<td></td>
</tr>
<tr>
<td>BUS 160 Business Law and the Legal Environment I 3</td>
<td></td>
<td>OFF 101 Introduction to Microsoft Office Applications 3</td>
<td></td>
</tr>
<tr>
<td>BUS 170 Small Business Management 3</td>
<td></td>
<td>OFF 201 Introduction to Electronic Commerce for Business 2</td>
<td></td>
</tr>
<tr>
<td>BUS 175 Introduction to Management 3</td>
<td></td>
<td>OFF 260 Computer Keyboarding and Document Processing 3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units 22</strong></td>
<td></td>
<td>OFF 281 Filing and Records Management 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OFF 291 Introduction to Technology 2</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Marketing</th>
<th></th>
<th>Word Processing</th>
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</thead>
<tbody>
<tr>
<td><strong>REQUIRED COURSES:</strong> BUS 130 Introduction to Business 3</td>
<td></td>
<td><strong>REQUIRED COURSES:</strong> OFF 120 Excel Spreadsheet 2</td>
<td></td>
</tr>
<tr>
<td>BUS 132 Ethics in Business 3</td>
<td></td>
<td>BUS 132 Ethics in Business 3</td>
<td></td>
</tr>
<tr>
<td>BUS 160 Business Law and the Legal Environment I 3</td>
<td></td>
<td>BUS 150 Business English 3</td>
<td></td>
</tr>
<tr>
<td>BUS 170 Small Business Management 3</td>
<td></td>
<td>BUS 152 Business Communications 3</td>
<td></td>
</tr>
<tr>
<td>BUS 185 Elements of Marketing 3</td>
<td></td>
<td>BUS 176 Management for the Office Professional 3</td>
<td></td>
</tr>
<tr>
<td>BUS 192 Advertising 3</td>
<td></td>
<td>OFF 215 Introduction to Microsoft Outlook 2</td>
<td></td>
</tr>
<tr>
<td>OFF 101 Introduction to Microsoft Office Applications 3</td>
<td></td>
<td>OFF 260 Computer Keyboarding and Document Processing 3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units 22</strong></td>
<td></td>
<td>OFF 281 Filing and Records Management 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OFF 291 Telecommunications for the Office 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OFF 294 Beginning Microsoft Word 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total Units 26</strong></td>
<td></td>
</tr>
</tbody>
</table>
### CERAMICS - ONE YEAR

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 111</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 120</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 140</td>
<td>Beginning Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 141</td>
<td>Intermediate Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 145</td>
<td>Ceramic Design and Decoration</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus Two Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 104</td>
<td>Art History and Appreciation-19th Century Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 105</td>
<td>Art History and Appreciation - Early 20th Century Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art History and Appreciation - Pre-Columbian</td>
<td>3</td>
</tr>
<tr>
<td>ART 130</td>
<td>Beginning Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 180</td>
<td>Beginning Clay Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 115</td>
<td>Figure Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>PHTO 101</td>
<td>Basic Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

**Employment Opportunity:**

Studio Potter, Ceramic Shop (retail)

**Total Units 36**

### CHILD DEVELOPMENT TEACHER

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHLD 110</td>
<td>Early Childhood Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY 206</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>CHLD 112</td>
<td>Principles of Early Childhood Education I</td>
<td>3</td>
</tr>
<tr>
<td>CHLD 114</td>
<td>Home-Child-Community Relations</td>
<td>3</td>
</tr>
<tr>
<td>CHLD 154</td>
<td>Observing and Recording Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus 9 units of electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHLD 120</td>
<td>Literacy for Children</td>
<td>3</td>
</tr>
<tr>
<td>CHLD 121</td>
<td>Art for Children</td>
<td>2</td>
</tr>
<tr>
<td>CHLD 122</td>
<td>Music and Rhythms for Children</td>
<td>2</td>
</tr>
<tr>
<td>CHLD 123</td>
<td>Science Experiences for Children</td>
<td>1</td>
</tr>
<tr>
<td>CHLD 124</td>
<td>Mathematics for Children</td>
<td>1</td>
</tr>
<tr>
<td>CHLD 134</td>
<td>Parent-Child Interaction</td>
<td>3</td>
</tr>
<tr>
<td>CHLD 142</td>
<td>Parent Teacher Partnership</td>
<td>1</td>
</tr>
<tr>
<td>CHLD 144</td>
<td>Health, Safety and Nutrition for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CHLD 150</td>
<td>Multi-Culture Anti-Bias Classrooms</td>
<td>3</td>
</tr>
<tr>
<td>CHLD 160</td>
<td>Perceptual Motor and Movement Activities</td>
<td>2</td>
</tr>
<tr>
<td>CHLD 164</td>
<td>The Child with Special Needs</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required supervised teaching experience:**

**Option 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHLD 156</td>
<td>Practicum A in Early Childhood Education</td>
<td>2</td>
</tr>
</tbody>
</table>

**Option 2**

- CHLD 158 Practicum B in Early Childhood Education 2
- CHLD 158L Practicum B Lab 1

The work experience should be a minimum of three hours per day of 175 days. Also required: 16 units of general education: one course minimum in each of the categories - English/Language Arts, Math or Science, Social Sciences, Humanities and/or Fine Arts, any general education elective excluding PE.

**Employment Opportunity:** Upon completion of this program, student will be eligible to apply for the state’s Child Development Permit: Teacher Level for teaching at the preschool level in public or private program.

**Total Units 40**

### CHILD DEVELOPMENT MASTER TEACHER

**REQUIRED COURSES:**

Completion of the Child Development Teacher Certificate of Achievement Total Units 40 and the following course work:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHLD 194</td>
<td>Personnel Issues in Early Childhood Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>CHLD 220</td>
<td>Early Childhood Education Mentor Teacher Practices</td>
<td>3</td>
</tr>
</tbody>
</table>

Six units of area specialization plus work experience requirement of 350 days within a four year period (3 hours a day minimum).

Note: The "area of specialization" units are above and beyond the child development unit requirements for the Teacher Certificate. The 6 units in your "area of specialization" may not be counted twice and should focus on one specific area of service, instruction, or curriculum.

Examples of specializations: Infant/Toddler, Teacher/Family Relations, Music/Movement Experiences, Children with Special Needs, Speech and Language Development, Health and Safety, Art and Creative Experiences, Multicultural/Bilingual Curriculum, Child Abuse/Children at Risk, Literacy/Children’s Literature. Administration and core areas are not acceptable.
specializations. Courses CHLD 110, 111, PSY 206, CHLD 114, 190, 191 and 194 cannot be used for the "area of specialization."

EMPLOYMENT OPPORTUNITY: Prepares the employed child development teacher to function as a mentor teacher to students in training or other adults working in the same environment. May be eligible to participate in the Mentor Teacher Project, which includes a stipend for professional development and for supervising identified students in training.

Total Units 49

CHILD DEVELOPMENT MASTER TEACHER-EARLY INTERVENTION

REQUIRED COURSES: Units

CHLD 110 Early Childhood Development 3

or

PSY 206 Child Growth and Development 3

CHLD 112 Principles of Early Childhood Education I 3

CHLD 114 Home-Child-Community Relations 3

CHLD 120 Literacy for Children 3

CHLD 142 Parent Teacher Partnership 1

CHLD 150 Multi-Culture Anti-Bias Classrooms 3

CHLD 154 Observing and Recording Behavior 3

CHLD 156 Practicum A in Early Childhood Education 2

and

CHLD 156L Practicum A Lab 1

or

CHLD 158 Practicum B in Early Childhood Education 2

and

CHLD 158L Practicum B Lab 1

CHLD 160 Perceptual Motor and Movement Activities 2

CHLD 164 The Child with Special Needs 3

CHLD 166 Speech and Language Development and Disorders 2

CHLD 168 Developmental Risk: Infants and Toddlers 2

CHLD 169 Managing Challenging and Disruptive Behaviors 1

CHLD 194 Personnel Issues in Early Childhood Education Programs 3

Plus 350 days of work experience required, at least 100 days in a special education setting.

EMPLOYMENT OPPORTUNITY: This program prepares you for the Child Development Permit: Master Teacher Level with an emphasis on working with young children with special needs. You will be qualified to teach at the preschool level in all programs. You will also be prepared to work under supervision in Early Intervention programs. Also, 16 diversified general education units within the areas of English, Math/Science, Social Sciences, Humanities or Fine Arts, any general education excluding PE. Please see an academic counselor or adviser.

Total Units 51

COMMERCIAL DANCE

Dance classes at Citrus prepare you for many opportunities in the world of dance. Classes are offered in jazz dance, classical ballet, tap dance and modern dance.

REQUIRED COURSES: Units

DANC 102 History of Dance 3

DANC 130 Alignment and Correctives 2

DANC 172 Composition in Group Forms 2

DANC 259 Intermediate Tap I 1

DANC 260 Intermediate Jazz Dance I 1

DANC 262 Intermediate Ballet I 1

DANC 269 Intermediate Tap II 1

DANC 272 Intermediate Ballet II 1

DANC 289 Dance Concert Production 3

ELECRIVES: Plus 34 units of the following:

DANC 159 Beginning Tap 1

DANC 160 Beginning Jazz Dance 1

DANC 161 Beginning Modern Dance 1

DANC 162 Beginning Ballet 1

DANC 164 Commercial Dance Techniques 2

DANC 165 Summer Dance Conservatory 1

DANC 171 Introduction to Choreography/Improvisation 2

DANC 259 Intermediate Tap I 1

DANC 260 Intermediate Jazz Dance I 1

DANC 261 Intermediate Modern Dance I 1

DANC 262 Intermediate Ballet I 1

DANC 269 Intermediate Tap II 1

DANC 270 Intermediate Jazz Dance II 1

DANC 272 Intermediate Ballet II 1

DANC 280 Choreography - Student Project 1

DANC 288 Citrus Dance Company - Touring Ensemble 3

DANC 289 Dance Concert Production 3

MUS 214 Musical Theatre Techniques 3

The above elective classes may be taken multiple times.

Total Units 49
**COSMETOLOGY**

The certificate is designed to provide cosmetology education to meet the requirements of the California State Board of Barbering and Cosmetology. The standard skill set for entry-level cosmetology will prepare students to successfully navigate, complete and build foundational skills necessary for employment in the cosmetology industry.

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COS 140</td>
<td>Introduction to Cosmetology</td>
<td>12</td>
</tr>
<tr>
<td>COS 152</td>
<td>Beginning Chemical Reformation of the Hair</td>
<td>4.5</td>
</tr>
<tr>
<td>COS 153</td>
<td>Advanced Chemical Reformation of the Hair</td>
<td>4.5</td>
</tr>
<tr>
<td>COS 154</td>
<td>Beginning Haircoloring</td>
<td>4.5</td>
</tr>
<tr>
<td>COS 155</td>
<td>Advanced Haircoloring</td>
<td>4.5</td>
</tr>
<tr>
<td>COS 156</td>
<td>Beginning Manicuring</td>
<td>4.5</td>
</tr>
<tr>
<td>COS 157</td>
<td>Advanced Manicuring</td>
<td>4.5</td>
</tr>
<tr>
<td>COS 158</td>
<td>Beginning Physical Restructuring of the Hair</td>
<td>4.5</td>
</tr>
<tr>
<td>COS 159</td>
<td>Advanced Physical Restructuring of the Hair</td>
<td>4.5</td>
</tr>
<tr>
<td>COS 163</td>
<td>Beginning Facial Treatment, Skin Care and Make-up</td>
<td>4.5</td>
</tr>
<tr>
<td>COS 164</td>
<td>Advanced Facial Treatments, Skin Care, and Make-up and Hair Stylist, Facialist, Nail Technician</td>
<td>4.5</td>
</tr>
</tbody>
</table>

**Total Units 57**

**DENTAL ASSISTING**

The Dental Assisting Program prepares students for the California State Registered Dental Assistant Examination. This program is accredited by the American Dental Association Commission on Accreditation and the California State Board of Dental Examiners. Upon completion, the graduate is eligible to sit for the California State Registered Dental Assistant Examination and the National Certification Examination. Must maintain a minimum grade of C in all dental courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 100</td>
<td>Dental Assisting Basics</td>
<td>2.5</td>
</tr>
<tr>
<td>DENT 101</td>
<td>Chairside Assisting</td>
<td>3</td>
</tr>
<tr>
<td>DENT 102</td>
<td>Dental Materials</td>
<td>2.5</td>
</tr>
<tr>
<td>DENT 121</td>
<td>Preclinical Dental Science</td>
<td>2</td>
</tr>
<tr>
<td>DENT 122</td>
<td>Infection Control in the Dental Office</td>
<td>1.5</td>
</tr>
<tr>
<td>DENT 123</td>
<td>Preventive Dental Health</td>
<td>2</td>
</tr>
<tr>
<td>DENT 124</td>
<td>Dental Specialties</td>
<td>2</td>
</tr>
<tr>
<td>DENT 125</td>
<td>Dental Practice Management</td>
<td>2</td>
</tr>
<tr>
<td>DENT 201</td>
<td>Dental Radiology</td>
<td>2</td>
</tr>
<tr>
<td>DENT 202</td>
<td>Registered Dental Assistant</td>
<td>4</td>
</tr>
<tr>
<td>DENT 203</td>
<td>Dental Practical Experience</td>
<td>5.5</td>
</tr>
<tr>
<td>DENT 204</td>
<td>RDA Clinical Procedures</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Units 30**

**DRAFTING**

**Drafting Technology - CAD**

This drafting program provides coursework for such majors as electronics, engineering and architecture. In addition to the transfer program, a number of certificates are available.

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 111</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 153</td>
<td>Digital Media Production I</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 101</td>
<td>Mechanical Drawing</td>
<td>3</td>
</tr>
<tr>
<td>or DRAF 112</td>
<td>Introduction to Computer Aided Design (CAD) and Mechanical Drawing</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 109</td>
<td>Intermediate Computer Aided Drafting (CAD)</td>
<td>2.5</td>
</tr>
<tr>
<td>ENGR 125</td>
<td>Introduction to Engineering CAD</td>
<td>2</td>
</tr>
<tr>
<td>DRAF 102</td>
<td>Technical Illustration</td>
<td>2.5</td>
</tr>
<tr>
<td>DRAF 103</td>
<td>Advanced Mechanical Drawing</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 111</td>
<td>Computer Aided Design and Drafting - Mechanical (CADD)</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Units 18.5-19**

**Advanced Drafting Technology - CAD**

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRAF 190</td>
<td>Computer Imaging Practices for Industry and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 198</td>
<td>Special Problems in Drafting</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 130</td>
<td>Engineering Graphics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 130</td>
<td>Elementary Algebra</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 110</td>
<td>Introduction to College Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units 36.5-37**

**Architectural Design**

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 111</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 120</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 121</td>
<td>Three-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 188</td>
<td>Multimedia Portfolio and Resume Production</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 158</td>
<td>Perspective</td>
<td>2</td>
</tr>
<tr>
<td>DRAF 161</td>
<td>Residential CAD</td>
<td>2</td>
</tr>
<tr>
<td>DRAF 190</td>
<td>Computer Imaging Practices for Industry and Architecture</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units 19**

**EMPLOYMENT OPPORTUNITY:** Dental Assistant, Registered Dental Assistant
Architectural Drafting - CAD

REQUISITED COURSES:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 153</td>
<td>Digital Media Production I</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 109</td>
<td>Intermediate Computer Aided Drafting (CAD)</td>
<td>2.5</td>
</tr>
<tr>
<td>or</td>
<td>ENGR 125 Introduction to Engineering CAD</td>
<td>2</td>
</tr>
<tr>
<td>DRAF 150</td>
<td>Introduction to Architecture</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 151</td>
<td>Basic Residential Floor Plans and Functional Design</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 152</td>
<td>Basic Residential Structure Design and Drafting</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 154</td>
<td>Commercial and Industrial Buildings</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 160</td>
<td>Introduction to Architectural CAD</td>
<td>2</td>
</tr>
</tbody>
</table>

EMPLOYMENT OPPORTUNITY: Entry level Architectural Drafter  

Total Units 19-19.5

Computer Generated Imagery

This drafting program provides coursework for such majors as electronics, engineering and architecture. In addition to the transfer program, a number of certificates are available.

REQUISITED COURSES:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRAF 102</td>
<td>Technical Illustration</td>
<td>2.5</td>
</tr>
<tr>
<td>DRAF 109</td>
<td>Intermediate Computer Aided Drafting (CAD)</td>
<td>2</td>
</tr>
<tr>
<td>DRAF 111</td>
<td>Advanced Computer Aided Design and Drafting - Mechanical (CADD)</td>
<td>2.5</td>
</tr>
<tr>
<td>DRAF 190</td>
<td>Computer Imaging Practices for Industry and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ART 120</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 121</td>
<td>Three-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 115</td>
<td>Figure Drawing I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 19

ELECTRONICS TECHNICIAN

Electronics technology is a two-year program which may be applied toward a four-year degree in engineering technology. Employment opportunities are available in many areas including research and development, industrial maintenance, field service, aerospace and commercial systems testing. Upon completion of the Electronics Technician Certificate the student is prepared to take the examination for a first class commercial license from the Federal Communications Commission and can be employed as an electronics technician.

REQUISITED COURSES:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC 101</td>
<td>Electronics Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 102</td>
<td>Electronics Communications</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 201</td>
<td>Digital Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 202</td>
<td>Solid State Devices</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 104</td>
<td>PC Hardware and Maintenance</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 107</td>
<td>Network Technology</td>
<td>4</td>
</tr>
</tbody>
</table>

EMPLOYMENT OPPORTUNITY: Aerospace Technician, Research and Development Technician, Test Equipment Repair and Calibration Technician  

Total Units 24

EMERGENCY MANAGEMENT

The Certificate of Achievement in Emergency Management and Homeland Security offers the required courses and learning domains for students to apply for employment with emergency management agencies, such as the local cities and county governments in California and non-profit organizations such as the American Red Cross, and Federal agencies such as the Department of Homeland Security (FEMA).

REQUISITED COURSES:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMER 162</td>
<td>Principles of Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>EMER 163</td>
<td>Terrorism and Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>EMER 164</td>
<td>Managing Hazardous Materials Incidents</td>
<td>3</td>
</tr>
<tr>
<td>EMER 166</td>
<td>Emergency Planning and Methodology</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus a minimum of 3 units selected from the following:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMER 167</td>
<td>Practical Applications of Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>EMER 168</td>
<td>Emergency Operations Center (EOC) Management</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 180</td>
<td>Introduction to Geographic Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 15
**ENERGY SYSTEMS TECHNOLOGY**

*Building Systems Design Technology*
This Certificate of Achievement is designed to prepare students for employment in the field of Building Systems Design. Courses prepare students for designing building systems with an emphasis on sustainability and energy efficiency. Employment as a Building Systems Technician is available in both the public and private sectors.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 152</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 154</td>
<td>Commercial and Industrial Buildings</td>
<td>3</td>
</tr>
<tr>
<td>ELEC 101</td>
<td>Electronics Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 100</td>
<td>Principles of Technology</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 125</td>
<td>Introduction to Engineering CAD</td>
<td>2</td>
</tr>
<tr>
<td>EST 101</td>
<td>Introduction to Building Systems</td>
<td>1</td>
</tr>
<tr>
<td>EST 150</td>
<td>Green Building Systems Technology</td>
<td>3</td>
</tr>
<tr>
<td>HEAT 170</td>
<td>Air Conditioning I</td>
<td>2</td>
</tr>
<tr>
<td>PUB 164</td>
<td>Plan Interpretation and Cost Estimating</td>
<td>3</td>
</tr>
<tr>
<td>DRAF 698A</td>
<td>Cooperative Education</td>
<td>1-4</td>
</tr>
<tr>
<td>DRAF 112</td>
<td>Advanced Lighting Design</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units 28-30**

*Building Systems Maintenance and Operations Technology*
This Certificate of Achievement is designed to prepare students for employment in the field of Building Systems Maintenance and Operations. Courses prepare students for the installation, maintenance, and repair of the computerized and electronic systems in modern buildings with an emphasis on energy conservation. Employment as a Building Systems Maintenance and Operations Technician is available in both the public and private sectors.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 152</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>ELEC 101</td>
<td>Electronics Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>ELEC 102 Electronics Communications</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 100</td>
<td>Principles of Technology</td>
<td>3</td>
</tr>
<tr>
<td>EST 101</td>
<td>Introduction to Building Systems</td>
<td>1</td>
</tr>
<tr>
<td>EST 150</td>
<td>Green Building Systems Technology</td>
<td>3</td>
</tr>
<tr>
<td>HEAT 170</td>
<td>Air Conditioning I</td>
<td>2</td>
</tr>
<tr>
<td>HEAT 184</td>
<td>Electricity for Heating and Air Conditioning</td>
<td>2</td>
</tr>
<tr>
<td>HEAT 188</td>
<td>Trouble Shooting Heating and Air Conditioning</td>
<td>2</td>
</tr>
<tr>
<td>HEAT 186</td>
<td>Control Systems</td>
<td>2</td>
</tr>
<tr>
<td>HEAT 698A</td>
<td>Cooperative Education</td>
<td>1-4</td>
</tr>
</tbody>
</table>

**Total Units 28-30**

**ESTHETICIAN**
This certificate is designed to provide esthetic education to meet the requirements of the California State Board of Barbering and Cosmetology. The standard skill set for esthetician will prepare students to successfully complete and build foundational skills necessary for entry-level employment in the field of esthetics.

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COS 165</td>
<td>Esthetician I</td>
<td>10</td>
</tr>
<tr>
<td>COS 166</td>
<td>Esthetician II</td>
<td>10</td>
</tr>
</tbody>
</table>

Establishing an Esthetician practice as an employee in a full service salon or as a separate and independent practice.

**Total Units 20**

**FORESTRY**
These courses provide forestry majors with introductory coursework. Those students who do not intend to transfer as forestry majors may take the courses for either direct vocational application or for general interest.

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOR 101</td>
<td>Introduction to Forestry</td>
<td>3</td>
</tr>
<tr>
<td>FOR 102</td>
<td>Introduction to Forest Ecology</td>
<td>3</td>
</tr>
<tr>
<td>FOR 103</td>
<td>Plant Identification</td>
<td>3</td>
</tr>
<tr>
<td>FOR 104</td>
<td>Introduction to Outdoor Recreation</td>
<td>3</td>
</tr>
<tr>
<td>FOR 105</td>
<td>Wildland Fire Management</td>
<td>3</td>
</tr>
<tr>
<td>FOR 106</td>
<td>Principles of Wildlife Management and Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 180</td>
<td>Introduction to Geographic Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

**EMLOYMENT OPPORTUNITY:** Entry-level forest technician in private or public sector

**Total Units 21**

*Pending Chancellor's Office Approval*
HEATING AND AIR CONDITIONING

This program is designed to prepare students who wish to seek employment in the heating and air conditioning industry or qualify for a more responsible position within the field. Courses prepare students for the EPA exam, which is required in this industry. Employment as a technician is available in both the public and the private sector.

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEAT 170</td>
<td>2</td>
</tr>
<tr>
<td>HEAT 180</td>
<td>2</td>
</tr>
<tr>
<td>HEAT 182</td>
<td>2</td>
</tr>
<tr>
<td>HEAT 184</td>
<td>2</td>
</tr>
<tr>
<td>Plus two of the following:</td>
<td></td>
</tr>
<tr>
<td>HEAT 186</td>
<td>2</td>
</tr>
<tr>
<td>HEAT 188</td>
<td>2</td>
</tr>
<tr>
<td>SPCH 100</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units 12-13**

MEDIUM & HEAVY DIESEL TRUCK TECHNOLOGY

These course offerings prepare students for entry-level occupations in diesel technology, medium and heavy trucks, and provide upgrading within these occupations. Employment positions are available in both the public and the private sector.

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTRK 130 Diesel Medium/Heavy Truck Technology I</td>
<td>11</td>
</tr>
<tr>
<td>MTRK 230 Diesel Medium/Heavy Truck Technology II</td>
<td>11</td>
</tr>
</tbody>
</table>

**EMPLOYMENT OPPORTUNITY:** Maintenance Technician, Diesel Mechanic: Heavy Equipment, Marine, Off-road, Over-the-road, Stationary

**Total Units 22**

*MOTORCYCLE SERVICE, DIAGNOSIS, AND REPAIR TECHNICIAN*

The courses listed in the Motorcycle Service, Diagnosis and Repair Technician certificate are selected to provide a comprehensive set of job skills needed by Motorcycle technicians. The certificate is designed to prepare an individual for employment or provide the skills needed for career advancement.

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOTO 101 Fundamentals of Motorcycle Service, Diagnosis and Repair</td>
<td>5</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>AUTO 101 Fundamentals of Automotive Service, Diagnosis and Repair</td>
<td>5</td>
</tr>
<tr>
<td>MOTO 141 Motorcycle Engine Mechanical Systems Service, Diagnosis &amp; Repair</td>
<td>4</td>
</tr>
<tr>
<td>MOTO 142 Motorcycle Power Transmission System Service, Diagnosis &amp; Repair</td>
<td>5</td>
</tr>
<tr>
<td>MOTO 144 Motorcycle Chassis System Service, Diagnosis &amp; Repair</td>
<td>5</td>
</tr>
<tr>
<td>MOTO 146 Motorcycle Electrical System Service, Diagnosis &amp; Repair</td>
<td>4</td>
</tr>
<tr>
<td>MOTO 148 Motorcycle Engine Management System Service, Diagnosis &amp; Repair</td>
<td>5</td>
</tr>
</tbody>
</table>

**Total Units 28**

*Pending Chancellor’s Office Approval

INFORMATION TECHNOLOGY

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 104 PC Hardware and Maintenance</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 107 Network Technology</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 108 Networking Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 109 Network and Computer Security</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 110 Introduction to College Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units 20**

LIBRARY TECHNOLOGY

The library technology program trains students for paraprofessional work in school, academic, research, public and special libraries.

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIBT 101 Introduction to Library Public Services</td>
<td>2</td>
</tr>
<tr>
<td>LIBT 102 Information Sources and Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>LIBT 201 Introduction to Cataloging</td>
<td>3</td>
</tr>
<tr>
<td>LIBT 203 Introduction to Acquisitions</td>
<td>2</td>
</tr>
<tr>
<td>LIBT 295 Audiovisual Services</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 130 Microcomputer Applications I</td>
<td>4</td>
</tr>
<tr>
<td>Plus one elective:</td>
<td></td>
</tr>
<tr>
<td>LIBT 290 Children's Library Services</td>
<td>2</td>
</tr>
<tr>
<td>BUS 152 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>OFF 285 Administrative Office Procedures</td>
<td>3</td>
</tr>
</tbody>
</table>

**EMPLOYMENT OPPORTUNITY:** Library Technician

**Total Units 19-20**
### PHOTOGRAPHY

**REQUIRED COURSES**
- PHTO 101 Basic Photography 3
- PHTO 102 Intermediate Photography 3
- PHTO 103 Advanced Photography 3
- PHTO 215 Electronic Photo Imaging 3

**ELECTIVES:** Plus three of the following
- PHTO 125 Photography as an Art Medium 3
- PHTO 126 Advanced Photography as an Art Medium 3
- PHTO 202 Photojournalism I 3
- PHTO 205 Color Photography 3
- PHTO 206 Intermediate Color Photography 3

**EMPLOYMENT OPPORTUNITY:** Entry-level photography technician, salesperson, self-employment

**Total Units 21**

### PUBLIC WORKS I

These course offerings prepare new personnel for public works occupations and provide upgrading within these occupations. Job opportunities exist in both the public and private sectors.

**REQUIRED COURSES:**
- PUB 150 Public Works I 3
- PUB 151 Street Construction and Maintenance 3
- PUB 155 Public Works Inspection 3
- PUB 157 Asphalt and Portland Cement 3
- MATH 115 Business Mathematics or higher 3

Plus one of the following:
- BUS 132 Ethics in Business 3
- BUS 150 Business English 3
- BUS 152 Business Communications 3
- CSIS 107 Fundamentals of Information Technology 4
- PHIL 108 Philosophy/Ethics 3
- SPCH 100 Interpersonal Communication 3
- SPCH 101 Public Address 3
- Any Public Works classes.

**EMPLOYMENT OPPORTUNITY:** Public Works Employees

**Total Units 18-19**

### PUBLIC WORKS II

The following courses are required for a Public Works - Level II certificate

**REQUIRED COURSES:**
- PUB 160 Public Administration 3
- PUB 164 Plan Interpretation and Cost Estimating 3
- PUB 166 Supervision in Public Works 3
- CSIS 130 Microcomputer Applications I 4

Plus two of the following:
- BUS 172 Personnel Management 3
- BUS 175 Introduction to Management 3
- BUS 176 Management for the Office Professional 3
- SPCH 100 Interpersonal Communication 3
- SPCH 101 Public Address 3
- Any Public Works classes.

**Total Units 19**

### PUBLIC WORKS/LANDSCAPE MANAGEMENT

This program of study will prepare students who want to enter or seek a promotion in the public landscaping field. Job opportunities include public works maintenance worker, arborist, landscape and park maintenance workers. This program is a partnership between Citrus College and Mt. San Antonio College, with course requirements that must be taken at each college (courses in Public Works are offered through Citrus, while horticulture and landscape courses are offered at Mt. SAC). Upon completion of the program requirements, students may apply for and receive a Certificate of Achievement from either of the two colleges.

**Citrus College Required Courses**
- PUB 150 Public Works I 3
- PUB 158 Municipal and Urban Tree 3

**Mt. San Antonio College Required Courses**
- AGOR 1 Horticultural Science 3
- AGOR 39 Turf Management 3

**Total Units 12**
THEATRE

Emerging Theatre Technologies
The following courses are required for an Emerging Theatre Technologies certificate.

REQUIRED COURSES: Units
THEA 101 Introduction to Theatre Arts 3
THEA 130 Introduction to Theatrical Scenery 3
THEA 140 Introduction to Stage Lighting 3
THEA 150 Introduction to Intelligent Lighting Systems for Theatre 3
THEA 160 Computer Aided Design for Theatre 4
THEA 245 Stage Management 3
THEA 260 Introduction to Show Production Systems 3
THEA 698C Cooperative Education 3
THEA 699A Cooperative Education 1
REC 135 Live Sound Reinforcement 4
REC 255 Advanced Live Sound Reinforcement 4
Total Units 34

VOCATIONAL NURSING
Successful completion of the program studies allows the student to become eligible to take the State Board Examination for Licensed Vocational Nurse-NCLEX.

REQUIRED COURSES:
VNRS 150 Fundamentals of Nursing 3
VNRS 151L Fundamentals of Nursing Lab 3
VNRS 152 Pharmacology I 1
VNRS 153 Introductory Nutrition for the Vocational Nurse 1
VNRS 154 Body Structure and Function for the Vocational Nurse 1.5
VNRS 155 Social-Psychology for the Vocational Nurse 1
VNRS 160 Medical-Surgical Nursing I 3
VNRS 161L Medical-Surgical Nursing I Lab 3
VNRS 162 Pharmacology II 1
VNRS 163 Diet Therapy for the Vocational Nurse 1
VNRS 164 Body Structure and Function for the Vocational Nurse II 1.5
VNRS 165 Growth and Development: Young Adult - Elderly 1
VNRS 170 Medical-Surgical Nursing II 7
VNRS 171L Medical-Surgical Nursing II Lab 7
VNRS 172 Advanced Pharmacology 2
VNRS 173 Psychology for Vocational Nurses 2
VNRS 180 Pediatric Nursing 3
VNRS 181 Growth and Development: Infancy-Adolescence 1

Units
VNRS 182 Obstetrical-Gynecological Nursing 4
VNRS 183 Leadership in Nursing 3

EMPLOYMENT OPPORTUNITY: Vocational Nurse
Total Units 50

WATER TECHNOLOGY
This program is designed to prepare students who wish to seek employment in the public water supply industry or qualify for a more responsible position within the industry. These courses will be helpful to students who wish to prepare for the T1, T2, T3, T4 and T5 Water Treatment Operator and D1, D2, D3, D4, and D5 Water Distribution Operator certification examinations given by the Department of Health Services. Coursework also provides contact hours for Operator certification maintenance requirements.

REQUIRED COURSES:
MATH 115 Business Mathematics or higher
WATR 150 Introduction to Water Systems 3
WATR 151 Water Resources and Distribution I 3
WATR 156 Water Treatment I 3
WATR 153 Water Resources and Distribution II 3
WATR 157 Water Treatment II 3

Select one course from the following:
BUS 152 Business Communications 3
BIOL 145 Environmental Science 3
CSIS 107 Fundamentals of Information Technology 4
CSIS 130 Microcomputer Applications I - Introductory MS Office 4
PUB 155 Public Works Inspection 3
PUB 160 Public Administration 3
PUB 161 California Occupational Safety and Health 3
PUB 166 Supervision in Public Works 3
SPCH 101 Public Address 3
SPCH 106 Small Group Communication 3
WATR 162 Water Conservation 3

Total Units 18-19
WEB DESIGN
Digital and Web Design
The Digital and Web Design certificate is designed to introduce and develop the basic skills necessary for success as an entry level graphic, digital or web designer. Fundamental to the core of a strong design sensibility, the computer is an essential tool for design success and a compliment to composition, design principles, layout, and typography.

REQUIRED COURSES:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 111</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 120</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 150</td>
<td>Computer Art Basics</td>
<td>3</td>
</tr>
<tr>
<td>ART 153</td>
<td>Digital Media Production I</td>
<td>3</td>
</tr>
<tr>
<td>ART 158</td>
<td>Commercial Graphic Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 162</td>
<td>Computer Graphics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 167</td>
<td>Web Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 168</td>
<td>Computer Animation I</td>
<td>3</td>
</tr>
<tr>
<td>ART 189</td>
<td>Art Portfolio and Resume Production</td>
<td>3</td>
</tr>
<tr>
<td>PHTO 101</td>
<td>Basic Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 30

Advanced Digital and Web Design
This certificate advances the student further into a digital design environment. Project and portfolios will reflect a higher level of understanding and execution from the designer.

REQUIRED COURSES:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART157</td>
<td>Digital Color File Manipulation</td>
<td>3</td>
</tr>
<tr>
<td>ART163</td>
<td>Computer Graphics II</td>
<td>3</td>
</tr>
<tr>
<td>ART253</td>
<td>Digital Media Production II</td>
<td>3</td>
</tr>
<tr>
<td>ART257</td>
<td>Projects: Advanced Digital Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>ART267</td>
<td>World Wide Web Design II</td>
<td>3</td>
</tr>
<tr>
<td>DRAF190</td>
<td>Computer Imaging Practices for Industry and Architecture</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 48
Some departments, based on the satisfactory completion of a course or a sequence of courses, issue a Skill Award. Total units taken for a Skill Award may not exceed 12 units. A Skill Award may verify and provide documentation of proficiency for entry-level employment requirements, job upgrades and application into fields that require documentation of specific coursework.

Programs of Study Leading to a Skill Award

Automotive Technology
- Engine Rebuilding & Machining

Child Development
- Child Development Associate Teacher
- Infant & Child Development Associate Teacher

Health Sciences
- Activity Coordinator
- Activity & Social Service Documentation
- Emergency Medical Technician
- Hospital Unit Clerk
- Medical Terminology
- Sub-Acute/Pediatrics Activity Leader

Medium & Heavy Truck Technology
- Diesel Technician

Nursing
- Drugs and Solutions
- Home Health Aide
- Nurse Assistant

AUTOMOTIVE TECHNOLOGY
ENGINE REBUILDING AND MACHINING
This program is designed to prepare students who wish to seek employment in the automotive technology industry or qualify for a more responsible position within the field.

REQUIRED COURSES:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 295</td>
<td>Engine Design</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 261</td>
<td>Cylinder Head Rebuilding</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 297</td>
<td>Cylinder Block Development</td>
<td>4</td>
</tr>
</tbody>
</table>

EMPLOYMENT OPPORTUNITY: Entry level engine machinist

Total Units 12

CHILD DEVELOPMENT

CHILD DEVELOPMENT ASSOCIATE TEACHER
REQUIRED COURSES:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHLD 110</td>
<td>Early Childhood Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY 206</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>CHLD 112</td>
<td>Principles of Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>CHLD 114</td>
<td>Home-Child-Community Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus three units of electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHLD 120</td>
<td>Literacy for Children</td>
<td>3</td>
</tr>
<tr>
<td>CHLD 121</td>
<td>Art for Children</td>
<td>2</td>
</tr>
<tr>
<td>CHLD 122</td>
<td>Music and Rhythms for Children</td>
<td>2</td>
</tr>
<tr>
<td>CHLD 123</td>
<td>Science Experiences for Children</td>
<td>1</td>
</tr>
<tr>
<td>CHLD 124</td>
<td>Mathematics for Children</td>
<td>1</td>
</tr>
<tr>
<td>CHLD 144</td>
<td>Health, Safety and Nutrition for Young Children</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus Early Childhood Work Experience (Cooperative Education), which counts toward the 50 days of required experience.

EMPLOYMENT OPPORTUNITY: This program prepares you to work as a child development aide or assistant in a public or private preschool, Headstart program or day care center, or as a teacher in a private program. Upon completion of the program, students may apply for the Child Development Permit: Associate Teacher Level.
INFANT AND CHILD DEVELOPMENT ASSOCIATE TEACHER

REQUIRED COURSES:
Completion of the Child Development Associate Teacher Skill Award plus
CHILD 130  Infant Development and Group Care  3

EMPLOYMENT OPPORTUNITY: This program prepares you to work as a child development aide or assistant in a public or private preschool, Headstart program or day care center, or as a teacher in a private infant or preschool program.

Total Units 15

HEALTH OCCUPATIONS

ACTIVITY COORDINATOR

REQUIRED COURSE:
HEAL 264  Activity Coordinator  3

EMPLOYMENT OPPORTUNITY: Skilled Nursing Facility Activity Leader I

Total Units 3

ACTIVITY & SOCIAL SERVICE DOCUMENTATION

REQUIRED COURSE:
HEAL 266  Activity and Social Service Documentation  2

EMPLOYMENT OPPORTUNITY: Advanced Activity Leader II

Total Units 2

EMERGENCY MEDICAL TECHNICIAN

REQUIRED COURSE:
HEAL 161  Emergency Medical Technician - Basic  7

EMPLOYMENT OPPORTUNITY:

Total Units 7

HOSPITAL UNIT CLERK

REQUIRED COURSE:
HEAL 105  Hospital Unit Coordinator  5

EMPLOYMENT OPPORTUNITY: Ward Clerk, Unit Secretary

Total Units 5

MEDICAL TERMINOLOGY

REQUIRED COURSE:
HEAL 156  Medical Terminology  3

EMPLOYMENT OPPORTUNITY: Preparation for Health Career

MEDIUM AND HEAVY TRUCK TECHNOLOGY

DIESEL TECHNICIAN

These course offerings prepare students for entry level occupations in diesel technology, medium and heavy trucks, and provide upgrading within these occupations.

EMPLOYMENT OPPORTUNITY: Employment positions are available in both the public and the private sector.

REQUIRED COURSE:
MTRK 270  Electronic Controls Systems: Detroit Diesel Engine DDEC I, II, III, and IV and three electives  2

ELECTIVES:
MTRK 235  Diesel Rebuilding: Detroit Engine- Series 71 and 92  2
MTRK 240  Diesel Rebuilding: Cummins Engine  2
MTRK 245  Diesel Rebuilding: Caterpillar Engine  2
MTRK 280  Heavy Duty Brake Systems  2

Total Units 8

NURSING

DRUGS AND SOLUTIONS

REQUIRED COURSE:
NRS 260  Drugs and Solutions  3

EMPLOYMENT OPPORTUNITY: Assist CNA to challenge the LVN licensure exam NCLEX-PN.

Total Units 3

HOME HEALTH AIDE

REQUIRED COURSE:
NRS 102  Home Health Aide  2

EMPLOYMENT OPPORTUNITY: Home Health Aide

Total Units 2
NURSE ASSISTANT
REQUIRED COURSE:
NRS 101 Nurse Assistant 5

EMPLOYMENT OPPORTUNITY: Certified Nurse Assistant, Acute Care Nurse Aide

Total Units 5
How Do I Transfer to a Four-Year College or University?
Transfer Policies and Guidelines

**University of California**
The University of California System (UC) consists of 10 campuses:
- Berkeley
- Davis
- Irvine
- Los Angeles
- Merced
- Riverside
- San Diego
- San Francisco (Medical Center)
- Santa Barbara
- Santa Cruz

**What UC Offers**
Each campus within the UC system has its own unique geographic and academic character. The UC offers bachelor's, master's, and doctoral degrees in a variety of subject areas.

One of the world's most respected research universities, the University of California offers its undergraduates an unmatched range of distinguished academic programs. Its dynamic learning environment is fueled by more than 7,600 dedicated, accomplished faculty members teaching more than 200,000 of the country's best and brightest students.

Outside the classroom, UC students can tap into extensive libraries and research facilities and a range of student clubs and activities where they can explore their interests.

Beyond the university, graduates enjoy high acceptance rates at graduate and professional schools and compete successfully in the job market, often becoming leaders in their fields.

**UC and the Community College Advantage**
The University of California works in partnership with California's community colleges to make admission attainable for transfer students. Specifically, California community college students receive:

**Priority consideration:** The University gives junior-level community college students first priority over other transfer applicants, including those from four-year institutions and UC's own intercampus transfer students.

**Help in choosing courses:** Articulation agreements with all of the state's community colleges identify which courses satisfy the requirements of individual UC campuses.

**Guaranteed admission:** Many UC campuses offer individual admission agreements that guarantee students space on campus or in a particular major, provided they complete specific academic requirements while at community college. Citrus has Transfer Admission Guarantee (TAG's) with Davis, Irvine, Merced, Riverside, San Diego, Santa Barbara and Santa Cruz. Avoid the competition-guarantee yourself admission. Come to the Career/Transfer Center to sign a TAG today.

**Transfer Eligibility Requirements**
The UC considers you a transfer applicant if you enrolled in a regular session at a college or university after high school, not including summer session. You can't disregard your college record and apply as a freshman. A maximum of 70 semester units of transferable credit will be accepted for courses completed at a California community college.

**Junior-Level Transfer**
The vast majority of transfer students come to the University at the junior level from California community colleges. To be eligible for admission as a junior transfer student, you must fulfill both of the following criteria:

1) Complete 60 semester units of transferable college credit with at least a 2.4 GPA (2.8 for nonresidents). No more than 14 semester units may be taken Pass/Not Pass.

2) Complete the following seven transferable college courses, earning a grade of C or better in each course:
   - Two courses in English composition;
   - One course in mathematical concepts and quantitative reasoning;
   - Four courses chosen from at least two of these subject areas: arts and humanities, social and behavioral sciences, and physical and biological sciences.

If you satisfy the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring to UC, you may satisfy the seven-course pattern outlined above, depending on the courses you take.
Each course in this pattern must be worth at least three semester units and you must earn a grade of C or better in each course. For information about which community college courses are UC transferable and which are approved for UC Transfer Admissions Eligibility, visit www.assist.org.

Lower-Division (Freshman/Sophomore) Transfer
You are also eligible to transfer if you were eligible for admission to the university as a freshman when you graduated from high school, and you have a C (2.0) average in your transferable college coursework. The University admits some transfer students before they reach junior standing if they have met specific requirements.

- If you were eligible for admission to the University when you graduated from high school, meaning you satisfied the Subject Scholarship and Examination requirements and have a 2.0 GPA in your transferable coursework completed thus far.
- If you met the Scholarship Requirement in high school but did not satisfy the 15-course Subject Requirement, you must take transferable college courses in the missing subjects, earn a C or better in each required course and maintain a 2.0 GPA in all transferable coursework to be eligible for transfer.

Nonresident
The minimum admission requirements for nonresidents are very similar to those for residents. If you are not a California resident, please consult with the admissions office at one of the university campuses for details. In all cases, however, nonresidents must have a grade point average of 2.8 or higher in all transferable college coursework.

Intersegmental General Education Transfer Curriculum (IGETC)
Completion of all the requirements in the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from a community college to a campus in either the University of California (UC) or the California State University (CSU) Systems without the need to complete additional lower-division general education courses. The IGETC is not an admission requirement for transfer to UC or CSU, nor is it the only way to fulfill prior to transfer, the lower-division, general education requirements of UC or CSU. Students pursuing majors that require extensive lower-division preparation may not find the IGETC option to be advantageous. Students with Advanced Placement (AP) Examinations may be able to use them towards credit for IGETC. A minimum grade of C is required in each course.

AREA 1 - ENGLISH COMMUNICATION
CSU - 3 courses required, one each from Group A, B and C. UC - 2 courses required, one each from Group A and B.

1A - English Composition
1 course, 3 semester units.
- ENGL 101 Reading and Composition 3
- ENGL 101H Reading and Composition 3

1B - Critical Thinking - English Composition
1 course, 3 semester units.
- ENGL 103 Composition and Critical Thinking 3
- ENGL 103H Composition and Critical Thinking 3
- ENGL 104 Advanced Rhetoric: The Classical Essay 3

1C - Oral Communication (CSU requirement only)
1 course, 3 semester units.
- SPCH 101 Public Address 3
- SPCH 101H Public Address 3
- SPCH 103 Argumentation and Debate 3

AREA 2 - MATHEMATICAL CONCEPTS and QUANTITATIVE REASONING
1 course, 3 semester units.
- MATH 162 Introductory Mathematical Analysis 4
- MATH 165 Introductory Statistics 4
- MATH 165H Introductory Statistics 4
- MATH 170 College Algebra 3
- MATH 175 Pre-Calculus 4
- MATH 190 Calculus with Analytic Geometry I 4
- MATH 191 Calculus with Analytic Geometry II 4
- MATH 210 Calculus with Analytic Geometry III 4
- MATH 211 Differential Equations 4
- MATH 212 Introduction to Linear Algebra 4
- PSY 203 Research Methods in Psychology 3

AREA 3 - ARTS and HUMANITIES
At least 3 courses, with at least one course from the arts and one course from the humanities. 9 semester units.

3A - Arts
- ART 100 Art History and Appreciation - Fundamentals 3
- ART 101 Art History and Appreciation - Ancient 3
| ART 102 | Art History and Appreciation - Medieval | 3 |
| ART 103 | Art History and Appreciation - Renaissance to Rococo | 3 |
| ART 104 | Art History and Appreciation - 19th Century Art | 3 |
| ART 105 | Art History and Appreciation - 20th Century Art | 3 |
| ART 106 | Art History and Appreciation - Pre-Columbian | 3 |
| ART 110 | Introduction to Visual Arts | 3 |
| ART 199 | Motion Picture Appreciation | 3 |
| ART 200 | History of Motion Pictures | 3 |
| ART 201 | History of Motion Pictures | 3 |
| ART 206 | History of Latin American Art | 3 |
| ART 207 | History of Asian Art - China, Korea and Japan | 3 |
| COMM 136 | Cultural History of American Films | 3 |
| DANC 102 | History of Dance | 3 |
| MUS 110 | History of Music I | 3 |
| MUS 111 | History of Music II | 3 |
| MUS 113 | History of Rock & Roll | 3 |
| MUS 114 | Music Appreciation | 3 |
| MUS 218 | History of Jazz | 3 |
| MUS 225 | Introduction to American Music | 3 |
| THEA 101 | Introduction to Theatre Arts | 3 |
| THEA 200 | Script Analysis - the Art of the Theater | 3 |
| GER 202 | German IV | 4 |
| HIST 103 | History of World Civilization - The Ancient World | 3 |
| HIST 103H | History Of World Civilization: The Ancient World | 3 |
| HIST 104 | History of World Civilization - The Middle Period | 3 |
| HIST 105 | History of World Civilization - The Modern Period | 3 |
| HIST 106 | 20th Century Western Civilization | 3 |
| HIST 107 | Political and Social History of the United States | 3 |
| HIST 107H | Political and Social History of the United States (Honors) | 3 |
| HIST 108 | Political and Social History of the United States | 3 |
| HIST 108H | Political and Social History of the United States | 3 |
| HIST 127 | Spanish Civilization | 3 |
| HIST 131 | History of Latin America | 3 |
| HIST 132 | History of Modern Latin America | 3 |
| HIST 140 | History of the American West | 3 |
| HUM 101 | Humanities | 3 |
| HUM 101H | Humanities | 3 |
| HUM 102 | Humanities | 3 |
| HUM 110 | Humanities in the 20th Century | 3 |
| HUM 111 | Humanities through the Arts | 3 |
| JPN 102 | Japanese II | 5 |
| PHIL 101 | Great Religions of the World | 3 |
| PHIL 106 | Introduction to Philosophy | 3 |
| PHIL 106H | Introduction to Philosophy | 3 |
| PHIL 108 | Philosophy - Ethics | 3 |
| SPAN 102 | Spanish II | 5 |
| SPAN 201 | Spanish III | 5 |
| SPAN 202 | Spanish IV | 5 |
| SPAN 210 | Intermediate Spanish for Speakers of Spanish I | 5 |
| SPAN 211 | Reading and Composition for Speakers of Spanish II | 5 |

### AREA 4 - SOCIAL and BEHAVIORAL SCIENCES

At least 3 courses from at least 2 disciplines or an interdisciplinary sequence. 9 semester units.

### 4A - Anthropology and Archaeology

| ANTH 210 | Introduction to Cultural Anthropology | 3 |
| ANTH 210H | Introduction to Cultural Anthropology | 3 |
| ANTH 214 | Native North America | 3 |
| ANTH 216 | Sex and Gender in a Cross Cultural Perspective | 3 |
| ANTH 220 | Introduction to Archaeology | 3 |
| SOC 216 | Sex and Gender in a Cross Cultural Perspective | 3 |
### 4B - Economics
- ECON 100 Economics
- ECON 101 Principles of Economics (Macro)
- ECON 101H Principles of Economics
- ECON 102 Principles of Economics (Micro)

### 4D - Gender Studies
- ANTH 216 Sex and Gender in a Cross Cultural Perspective
- SOC 216 Sex and Gender in a Cross Cultural Perspective

### 4E - Geography
- GEOG 102 Cultural Geography

### 4F - History
- HIST 103 History of World Civilization: The Ancient World
- HIST 103H History Of World Civilization - The Ancient World
- HIST 107 Political and Social History of the United States
- HIST 107H Political and Social History of the United States (Honors)
- HIST 108 Political and Social History of the United States
- HIST 108H Political and Social History of the United States
- HIST 109 The World in Conflict-The 20th Century, a History
- HIST 110 A Survey History of Africa
- HIST 111 History of the African-Americans
- HIST 112 History of the African-Americans
- HIST 127 Spanish Civilization
- HIST 130 History of Latin America
- HIST 131 History of Latin America
- HIST 139 History of California
- HIST 145 History of Mexico
- HIST 155 History of the Vietnam War
- HIST 222 History of World War II

### 4G - Interdisciplinary
- SOC 114 Marriage, Family and Intimate Relations

### 4I - Psychology
- PSY 101 Introduction to Psychology
- PSY 110 Psychology of Religion I
- PSY 111 Psychology of Religion II
- PSY 203 Research Methods in Psychology
- PSY 205 Developmental Psychology
- PSY 206 Child Growth and Development
- PSY 206H Child Growth and Development
- PSY 212 Abnormal Psychology
- PSY 22 Introduction to Social Psychology
- PSY 225 Psychology of Human Sexuality
- PSY 226 Psychology of Women

### 4J - Sociology & Criminology
- ANTH 216 Sex and Gender in a Cross Cultural Perspective
- SOC 118 Minorities in America
- SOC 122 Introduction to Latino Studies
- SOC 201 Introduction to Sociology
- SOC 201H Introduction to Sociology
- SOC 202 Contemporary Social Problems
- SOC 203 Criminology
- SOC 216 Sex and Gender in a Cross Cultural Perspective

### 5A - Physical Science
- CHEM 103 College Chemistry
- CHEM 104 College Chemistry
- CHEM 110 Beginning General Chemistry
- CHEM 111 General Chemistry
- CHEM 112 General Chemistry
- CHEM 210 Organic Chemistry
- CHEM 211L Organic Chemistry Lab
- CHEM 220 Organic Chemistry
- CHEM 221L Organic Chemistry Lab
- ASTR 115 Planetary Astronomy
- ASTR 115H Planetary Astronomy
- ASTR 116 Stellar Astronomy
- ASTR 117 Life in the Universe
- ESCI 118 Physical Geography
- ESCI 120 Physical Geology
- ESCI 121 Historical Geology
- ESCI 122 Geology: Earth History
- ESCI 130 Physical Oceanography
- PHYS 105 Physical Science
- PHYS 110 Introduction to College Physics
- PHYS 111 General Physics
- PHYS 112 General Physics
- PHYS 201 Physics
- PHYS 202 Physics
- PHYS 203 Physics
5B - Biological Science
ANTH 212 Introduction to Physical Anthropology 3
ANTH 212L Introduction to Physical Anthropology Lab 1
BIOL 102 Human Genetics 3
BIOL 104 Biology: Contemporary Topics 3
BIOL 105 General Biology 4
BIOL 124 Principles of Biology I 5
BIOL 125 Principles of Biology II 5
BIOL 145 Environmental Science 3
BIOL 200 Human Anatomy 4
BIOL 201 Physiology 4
BIOL 220 Microbiology 5

AREA 6 - LANGUAGES OTHER THAN ENGLISH
(UC Requirement Only)
Proficiency equivalent to two years of high school study in the same language.

6A - Languages Other Than English
FREN 101 French I 5
FREN 102 French II 5
FREN 201 French III 4
FREN 202 French IV 4
GER 101 German I 5
GER 102 German II 5
GER 201 German III 4
GER 202 German IV 4
JPN 101 Japanese I 5
JPN 102 Japanese II 5
SPAN 101 Spanish I 5
SPAN 102 Spanish II 5
SPAN 201 Spanish III 5
SPAN 202 Spanish IV 5
SPAN 210 Intermediate Spanish for Speakers of Spanish I 5

* Courses listed in multiple areas shall not be certified in more than one area except for courses in Languages other than English, which can be certified in both areas 3B and 6A.

Courses in bold are lab courses.
California State University
The California State University is the nation’s largest university system, with 23 campuses, seven off-site campus centers, over 400,000 students, and 42,000 faculty and staff. With campuses from Humboldt in the north to San Diego in the south, the CSU is renowned for the quality of its teaching and for its job-ready graduates.

The 23 CSU campuses are:
- Bakersfield
- Channel Islands
- Chico
- Dominguez Hills
- Fresno
- Fullerton
- East Bay
- Humboldt
- Los Angeles
- Long Beach
- Maritime Academy
- Monterey Bay
- Northridge
- Pomona
- Sacramento
- San Bernardino
- San Diego
- San Francisco
- San Jose
- San Luis Obispo
- San Marcos
- Sonoma
- Stanislaus

While part of the CSU system, each campus has a unique identity. CSU campuses have distinct student populations and programs, but all share the same mission to provide high-quality, affordable higher education that meets the ever-changing needs of the people of California.

CSU offers nearly 1,800 bachelor's and master's degree programs in 240 subject areas. Many of these programs are offered in the late afternoon and evenings for students who work during the day.

The California State University seeks to assist California community college students in preparing for transfer and in completing their baccalaureate degree. Each year, nearly 60,000 transfer students enter the CSU system. The key to a successful transfer is early planning to ensure that students complete courses to meet the admission, general education, and lower division major preparation requirements.

Over two-thirds of students who receive a baccalaureate degree from the CSU begin their educational program at a California community college (CCC). The CSU guarantees admission to its system to all CCC students who meet CSU upper division transfer admission requirements. Students who enter a California community college as freshmen and then transfer to the CSU are as successful academically as those students who enter CSU directly from high school as freshmen.

Undergraduate Transfers
The California State University generally considers an undergraduate transfer student as one who has enrolled in a community college or university other than a CSU following high school graduation. Students with fewer than 60 transferable semester units are considered lower division transferees. Students with 60 transferable semester units are considered upper division transferees.

Admission Priority
Among the highest priorities for admission to CSU are California community college transfer students who have completed the first two years of the baccalaureate program, including transfer students applying for impacted programs. Students will be considered as having achieved junior class level standing once they have completed at least 60 semester baccalaureate level units.

Unit Requirements
An applicant who completes fewer than 60 semester units of college credit is considered a lower division transfer student. The student is admitted to a campus as an undergraduate transfer if the campus to which the student applies admits lower division transfer students.

Due to enrollment pressures, some CSU campuses do not admit lower division transferees so that more upper division transferees can be accommodated. Having fewer than 60 units at the point of transfer may affect eligibility for registration priority at CSU campuses and may affect the student’s financial aid status.

A maximum of 70 semester units earned at community colleges may be transferred to CSU.

Community college coursework completed above the 70 units may be used to meet GE and major preparation requirements even if the units will not count toward the baccalaureate degree.

Lower Division Admission Requirements
Transfer applicants with fewer than 60 semester units must have a grade point average of 2.0 (C) or better in all transferable units attempted, be in good standing at the last college or university attended, and meet any one of the following eligibility standards.

Transfer Based on Current Admission Criteria
The applicant meets the freshman admission requirements in effect for the term for which application is being made; -OR-
Transfer Based on High School Eligibility
The applicant was eligible as a freshman at the time of high school graduation and has been in continuous attendance in an accredited college since high school graduation;

-OR-

Transfer Based on Making up Missing Subjects
The applicant had a qualifiable eligibility index at the time of high school graduation (combination of GPA and test scores if needed), has made up any missing college preparatory subject requirements with a grade of C or better, and has been in continuous attendance in an accredited college since high school graduation. One baccalaureate level course of at least three semester units is usually considered equivalent to one year of high school study.

Note: Due to enrollment pressures, some CSU campuses do not admit lower division transfers. Some campuses may require lower division transfer students to complete specific college coursework, e.g. the four basic skill courses, as part of their admission criteria.

Upper Division Admission Requirements
Applicants with 60 or more transferable semester units must have an overall grade point average of 2.0 (C) or better (2.4 for California non-residents) in all transferable units attempted, and be in good standing at the last college or university attended. Such students are eligible for admission to the CSU if they have:

- Completed 60 transferable semester units;
- Completed at least 30 semester units of general education courses, graded C or better in each course, including:
- All general education requirements in communication in the English language,
- 9 semester units consisting of one course in written communication; one course in oral communication; one course in critical thinking (CSU GE category A); and one course in mathematics/quantitative reasoning (CSU GE category B4).
- Acquired a grade point average of 2.0 or better (2.4 for California non-residents) in all transferable college units attempted; and
- Maintained good standing at the last college or university attended (i.e. eligible to re-enroll at the college or university).

Note: Campuses and/or programs and class levels that are designated as being impacted have additional admission criteria. See www.calstate.edu (search for impact) for additional information on impacted programs.

Lower Division Transfer Pattern (LDTP)
The Lower-Division Transfer Patterns (LDTP) project, sponsored by the California State University (CSU) and supported by the California Community Colleges, presents potential transfer students with a set of "road maps" to follow that will ensure appropriate academic preparation for studies at CSU and that will decrease time to graduation once these students enter the CSU. The LDTP for each discipline has statewide as well as some courses within the discipline. The campus-specific component identifies discipline related coursework relevant to the major at the specific CSU campus. Together these components for an LDTP discipline will generally total at least 60 units, the number needed to transfer to CSU as an upper-division student.

Forty-four disciplines have developed patterns. Thirty-two are published on the LDTP website. For the most current information about the patterns and courses descriptors, please see http://www.calstate.edu/acadaff/ldtp
The California State University General Education - Breadth Requirements

Citrus College may certify that a student has satisfied the minimum general education requirements of 39 lower division transfer units in accordance with CSU Executive Order 595. It is also possible to transfer to a California State University campus upon completion of the Intersegmental General Education Transfer Curriculum (IGETC). The number of units which may be certified are as follows:

**AREA A - COMMUNICATION IN THE ENGLISH LANGUAGE AND CRITICAL THINKING**  
9 semester units required with at least one course each from A1, A2 and A3

<table>
<thead>
<tr>
<th>A1 - Oral Communication</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH 100 Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101 Public Address</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101H Public Address</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 106 Small Group Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A2 - Written Communication</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101 Reading and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101H Reading and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ESL 101 Reading and Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A3 - Critical Thinking</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 103 Composition and Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 103H Composition and Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 104 Advanced Rhetoric: The Classical Essay</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 110 Philosophy-Logic</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 103 Argumentation and Debate</td>
<td>3</td>
</tr>
</tbody>
</table>

**AREA B - PHYSICAL UNIVERSE AND ITS LIFE FORMS**  
9 semester units required with at least one course each from physical science, life science (at least one to contain a laboratory component) and mathematics/quantitative reasoning

<table>
<thead>
<tr>
<th>B1 - Physical Science</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 115 Planetary Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 115H Planetary Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 116 Stellar Astronomy</td>
<td>4</td>
</tr>
<tr>
<td>ASTR 117 Life in the Universe</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 100 Chemistry For Daily Life</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 103 College Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104 College Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 106 Chemistry and Physics for Educators</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 110 Beginning General Chemistry (Same as PHYS 106)</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 111 General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 210 Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 220 Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 111 Earth and Space Science for Educators</td>
<td>4</td>
</tr>
<tr>
<td>ESCI 118 Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 120 Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 121 Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 122 Geology: Earth History</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 124 Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>ESCI 125 Stellar Astronomy</td>
<td>4</td>
</tr>
<tr>
<td>ESCI 130 Physical Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 105 Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 106 Chemistry and Physics for Educators</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 110 Introduction to College Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111 General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 112 General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 201 Physics</td>
<td>5</td>
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<tr>
<td>PHYS 202 Physics</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B2 - Life Science</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 212 Introduction to Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 102 Human Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 104 Biology: Contemporary Topics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 105 General Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 109 Biology for Educators</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 124 Principles of Biology I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 125 Principles of Biology II</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 145 Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 200 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 201 Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 220 Microbiology</td>
<td>5</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>B3 - Laboratory Activity</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 212L Introduction to Physical Anthropology Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B4 - Mathematics/Quantitative Reasoning</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151 Plane Trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 160 Survey of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 162 Introductory Mathematical Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 165 Introductory Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 165H Introductory Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 168 Mathematics for Educators I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 169 Mathematics For Educators II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 170 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 175 Pre-Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 190 Calculus with Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 191 Calculus with Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 210 Calculus with Analytic Geometry III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 211 Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 212 Linear Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>
### AREA C - ARTS, LITERATURE, PHILOSOPHY AND FOREIGN LANGUAGE

9 semester units required with at least one course each in arts and humanities

#### C1 - Arts (Art, Dance, Music, Theater)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 100</td>
<td>Art History and Appreciation - Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ART 101</td>
<td>Art History and Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>ART 102</td>
<td>Art History and Appreciation - Medieval</td>
<td>3</td>
</tr>
<tr>
<td>ART 103</td>
<td>Art History and Appreciation - Renaissance to Rococo</td>
<td>3</td>
</tr>
<tr>
<td>ART 104</td>
<td>Art History and Appreciation - 19th Century Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 105</td>
<td>Art History and Appreciation - 20th Century Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art History and Appreciation - Pre-Columbian Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ART 110</td>
<td>Introduction to Visual Arts</td>
<td>3</td>
</tr>
<tr>
<td>ART 111</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 112</td>
<td>Intermediate Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 130</td>
<td>Beginning Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 140</td>
<td>Beginning Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 199</td>
<td>Motion Picture Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>ART 200</td>
<td>History of Motion Pictures</td>
<td>3</td>
</tr>
<tr>
<td>ART 201</td>
<td>History of Motion Pictures</td>
<td>3</td>
</tr>
<tr>
<td>ART 206</td>
<td>History of Latin American Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 207</td>
<td>History of Asian Art - China, Korea and Japan</td>
<td>3</td>
</tr>
<tr>
<td>COMM 136</td>
<td>Cultural History of American Films</td>
<td>3</td>
</tr>
<tr>
<td>DANC 102</td>
<td>History of Dance</td>
<td>3</td>
</tr>
<tr>
<td>MUS 110</td>
<td>History of Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 111</td>
<td>History of Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 113</td>
<td>History of Rock &amp; Roll</td>
<td>3</td>
</tr>
<tr>
<td>MUS 114</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>MUS 218</td>
<td>History of Jazz</td>
<td>3</td>
</tr>
<tr>
<td>MUS 225</td>
<td>Introduction to American Music</td>
<td>3</td>
</tr>
<tr>
<td>THEA 101</td>
<td>Introduction to Theatre Arts</td>
<td>3</td>
</tr>
<tr>
<td>THEA 200</td>
<td>Script Analysis-the Art of The Theater</td>
<td>3</td>
</tr>
<tr>
<td>THEA 201</td>
<td>Acting Fundamentals I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 202</td>
<td>Acting Fundamentals II</td>
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</table>

#### C2 - Humanities (Literature, Philosophy, Foreign Language)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 262</td>
<td>Introduction to American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 271</td>
<td>Introduction to World Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 272</td>
<td>Introduction to World Literature: Ancient-Medieval</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 291</td>
<td>Film as Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 291H</td>
<td>Honors Film as Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 293</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 293H</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 294</td>
<td>Introduction to Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 296</td>
<td>Introduction to Folklore</td>
<td>3</td>
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<tr>
<td>ENGL 298</td>
<td>Literature of the Bible</td>
<td>3</td>
</tr>
<tr>
<td>FREN 101</td>
<td>French I</td>
<td>5</td>
</tr>
<tr>
<td>FREN 102</td>
<td>French II</td>
<td>5</td>
</tr>
<tr>
<td>FREN 201</td>
<td>French III</td>
<td>4</td>
</tr>
<tr>
<td>FREN 202</td>
<td>French IV</td>
<td>4</td>
</tr>
<tr>
<td>GER 101</td>
<td>German I</td>
<td>5</td>
</tr>
<tr>
<td>GER 102</td>
<td>German II</td>
<td>5</td>
</tr>
<tr>
<td>GER 201</td>
<td>German III</td>
<td>4</td>
</tr>
<tr>
<td>GER 202</td>
<td>German IV</td>
<td>4</td>
</tr>
<tr>
<td>HIST 103</td>
<td>History of World Civilization - The Ancient World</td>
<td>3</td>
</tr>
<tr>
<td>HIST 103H</td>
<td>History of World Civilization - The Ancient World</td>
<td>3</td>
</tr>
<tr>
<td>HIST 107</td>
<td>Political and Social History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 107H</td>
<td>Political and Social History of the United States (Honors)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 108</td>
<td>Political and Social History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 108H</td>
<td>Political and Social History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 127</td>
<td>Spanish Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 130</td>
<td>History of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 131</td>
<td>History of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 140</td>
<td>History of the American West</td>
<td>3</td>
</tr>
<tr>
<td>HUM 101</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 101H</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 102</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>HUM 110</td>
<td>Humanities in the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>HUM 111</td>
<td>Humanities through the Arts</td>
<td>3</td>
</tr>
<tr>
<td>JPN 101</td>
<td>Japanese I</td>
<td>5</td>
</tr>
<tr>
<td>JPN 102</td>
<td>Japanese II</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 101</td>
<td>Great Religions of the World</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 106</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 106H</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 108</td>
<td>Philosophy-Ethics</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 101</td>
<td>Spanish I</td>
<td>5</td>
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<tr>
<td>SPAN 102</td>
<td>Spanish II</td>
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<tr>
<td>SPAN 201</td>
<td>Spanish III</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 202</td>
<td>Spanish IV</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 210</td>
<td>Intermediate Spanish for Speakers of Spanish I</td>
<td>5</td>
</tr>
<tr>
<td>SPAN 211</td>
<td>Reading and Composition for Speakers of Spanish II</td>
<td>5</td>
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</table>
### AREA D - SOCIAL, POLITICAL AND ECONOMIC INSTITUTIONS AND BEHAVIOR, HISTORICAL BACKGROUND

9 semester units required with courses in at least 2 disciplines

<table>
<thead>
<tr>
<th>D0 - Sociology and Criminology</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 216</td>
<td>Sex and Gender in a Cross Cultural Perspective Same as: SOC 216</td>
</tr>
<tr>
<td>SOC 118</td>
<td>Minorities in America</td>
</tr>
<tr>
<td>SOC 122</td>
<td>Introduction to Latino Studies</td>
</tr>
<tr>
<td>SOC 201</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>SOC 201H</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>SOC 202</td>
<td>Contemporary Social Problems</td>
</tr>
<tr>
<td>SOC 203</td>
<td>Criminology</td>
</tr>
<tr>
<td>SOC 216</td>
<td>Sex and Gender in a Cross Cultural Perspective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D1 - Anthropology and Archeology</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 210</td>
<td>Introduction to Cultural Anthropology</td>
</tr>
<tr>
<td>ANTH 210H</td>
<td>Introduction to Cultural Anthropology</td>
</tr>
<tr>
<td>ANTH 212</td>
<td>Introduction to Physical Anthropology</td>
</tr>
<tr>
<td>ANTH 214</td>
<td>Native North America</td>
</tr>
<tr>
<td>ANTH 216</td>
<td>Sex and Gender in a Cross Cultural Perspective</td>
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<tr>
<td>ANTH 220</td>
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<tr>
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<tr>
<td>ECON 100</td>
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<tr>
<td>ECON 101</td>
<td>Principles of Economics (Macro)</td>
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<td>ECON 101H</td>
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<td>ECON 102</td>
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<th>D3 - Ethnic Studies</th>
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<tr>
<td>HIST 111</td>
<td>History of the African-Americans</td>
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<td>HIST 112</td>
<td>History of the African-Americans</td>
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<td>SOC 118</td>
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<tr>
<td>ANTH 216</td>
<td>Sex and Gender in a Cross Cultural Perspective</td>
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<tr>
<td>PSY 226</td>
<td>Psychology of Women</td>
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<tr>
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<td>GEOG 102</td>
<td>Cultural Geography</td>
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<td>HIST 103H</td>
<td>History Of World Civilization: The Ancient World</td>
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<td>HIST 104</td>
<td>History of World Civilization - The Middle Period</td>
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<td>HIST 105</td>
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<tr>
<td>HIST 106</td>
<td>20th Century Western Civilization</td>
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<tr>
<td>HIST 107</td>
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<td>HIST 109</td>
<td>The World in Conflict - The 20th Century, a History</td>
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<td>HIST 110</td>
<td>A Survey History of Africa</td>
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<td>HIST 111</td>
<td>History of the African-Americans</td>
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<td>HIST 120</td>
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<td>HIST 130</td>
<td>History of Latin America</td>
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<td>HIST 131</td>
<td>History of Latin American to 1825</td>
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<td>HIST 139</td>
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<td>HIST 140</td>
<td>History of the American West</td>
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<td>HIST 127</td>
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<td>LING 101</td>
<td>Introduction to Language and Linguistics</td>
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<td>SPAN 127</td>
<td>Spanish Civilization</td>
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<tr>
<td>SOC 114</td>
<td>Marriage, Family and Intimate Relations</td>
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<tr>
<th>D8 - Political Science, Government and Legal Institutions</th>
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<tbody>
<tr>
<td>POLI 103</td>
<td>American Government and Politics</td>
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<td>POLI 103H</td>
<td>American Government and Politics</td>
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<tr>
<td>POLI 104</td>
<td>Introduction to Political Science</td>
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<tr>
<td>POLI 105</td>
<td>Comparative Politics</td>
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<td>POLI 110</td>
<td>Current American Political Issues</td>
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<tr>
<td>POLI 116</td>
<td>Contemporary World Politics</td>
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**D9 - Psychology**

- PSY 101 Introduction to Psychology 3
- PSY 110 Psychology of Religion I 3
- PSY 111 Psychology of Religion II 3
- PSY 203 Research Methods in Psychology 3
- PSY 205 Developmental Psychology 3
- PSY 206 Child Growth and Development 3
- PSY 206H Child Growth and Development 3
- PSY 212 Abnormal Psychology 3
- PSY 220 Introduction to Social Psychology 3
- PSY 225 Psychology of Human Sexuality 3

**AREA E - LIFELONG UNDERSTANDING AND SELF-DEVELOPMENT**

3 semester units

**E - Lifelong Understanding and Self-Development**

- BIOL 116 AIDS: Insights and Implications 3
- COUN 145 Career/Life Planning 3
- PE 170 Fitness for Life 3
- PE 171 Health Science 3
- PE 171H Health Science 3
- PE 173 Nutrition for Fitness 3
- PSY 133 Personal & Social Growth 3
- PSY 152 Psychology of Human Relations 3
- PSY 206 Child Growth and Development 3
- PSY 206H Child Growth and Development 3
- PSY 226 Psychology of Women 3
- PSY 213 Survey of Drug and Alcohol Use and Abuse 3
- PSY 225 Psychology of Human Sexuality 3
- SOC 114 Marriage, Family, and Intimate Relations 3

*James Shannon, professor of psychology.*
An Important Note about Planning For Transfer
In general, courses listed as preparation for a major may also be applicable as general education requirements. Students should refer to the catalog of the institution offering their intended major to determine lower-division major requirements, as well as those that are recommended or required in preparation for the major. Refer to the Citrus College Transfer Planning Guide, available in the Transfer Center.

In addition, the ASSIST website at www.assist.org, is the official California statewide database listing a selection of campus-approved articulation/transfer agreements, general education requirements, and information on UC and CSU transferable courses. Students are also advised to contact a Citrus College counselor for more information and for details regarding other transfer agreements and options not available on ASSIST.

Teacher Education
Students who plan to enter the teaching profession at the elementary or high school level can take their first two years of instruction at Citrus College and then transfer to a four-year university.

Teachers must demonstrate comprehensive knowledge of the subjects they teach, and subject matter preparation can begin at Citrus. For elementary school teaching, many general education courses will also apply to subject matter preparation.

In order to avoid duplication of coursework and make the most efficient use of their time, students should see a counselor in the Center for Teacher Excellence, located in the ED Building.

Preparation for Professional Schools
Some professions, such as law, stress that candidates for admission to professional schools can best prepare themselves during college by acquiring several fundamental skills. Others, for example, medicine and dentistry, emphasize certain subject matters. A student preparing for either emphasis (skills or specific subjects) has opportunities to do so by selecting, in consultation with an academic counselor, the kind of curriculum that most soundly meets the standards set by the profession he or she wishes to enter.

Pre-Professional Programs: Medicine, Veterinary Medicine, Dentistry, Pharmacy
The majority of students entering medical and dental schools in the United States do so after having acquired a B.A. or B.S. degree at an undergraduate college or university. Possession of an undergraduate degree is especially worthwhile, since professional schools do not offer liberal arts subjects.

Any undergraduate major is appropriate for a pre-professional student as long as certain basic subject areas are included in the program. For specific requirements of professional schools, the student is urged to consult special sources such as "Medical School Admission Requirements," a publication of the Association of American Medical Colleges or a counselor.

In general, medical and dental schools recommend that the undergraduate degree program include: one year of general chemistry, one year of organic chemistry; one year of general biology with additional course work in developmental biology and/or comparative anatomy and genetics; and one year of physics. Other courses, such as mathematics through calculus and physical chemistry, are often recommended.

Since pre-professional programs in dentistry place heavy emphasis on biology and chemistry, these are the two majors most often elected by pre-professional students. A pre-professional student majoring in biology should complete the biology lower division preparation, supported by courses in chemistry and physics. A pre-professional student majoring in chemistry should complete the chemistry lower division preparation, supported by courses in mathematics and physics.

The science and mathematics components of pre-professional programs in veterinary medicine are quite similar to those for medicine. Admission to a school of pharmacy can also be gained after two years of undergraduate work. Although entrance requirements vary somewhat, they generally include full-year introductory courses in biology, chemistry, mathematics and physics. A course in organic chemistry is sometimes required.

Pre-Engineering Program
Most students earn engineering degrees by attending a university with an accredited program in engineering. Although there are many different engineering disciplines, the first two years of course work is quite similar for most of these fields. The lower division major preparation completed at Citrus can prepare you for transfer to a pre-engineering program or an accredited engineering program.
The advantages to students who enter a pre-engineering program are many. Most engineering schools are very competitive and not all qualified students can be accepted as freshmen. However, it is much easier for a student to qualify as a transfer student.

A counselor or adviser can help you design a course of study. Visit the Career/Transfer Center for a list of pre-engineering courses and to make an appointment with a counselor.

**Pre-Professional Programs: Law**

Applicants for admission to most law schools are expected to have a B.A. or B.S. degree and to have taken the Law School Admission Test. There is no single "pre-law" major required since the successful study of law is more often related to the ability to grasp and solve difficult intellectual problems and to employ disciplined work habits, than it is to any narrow, specialized field of study. However, students headed for law school are well advised to take a small number of selected liberal arts courses in subjects relevant to the law.

Several broad objectives of pre-legal education are set forth by the Association of American Law Schools. These include oral and written command of language; an understanding and appreciation of social, political and economic values, institutions, problems and frames of reference; and an ability for creative, innovative, critical and analytical thinking.

For these reasons, every pre-law student should carefully choose, with the aid of a counselor or adviser, courses which sharpen the skills and sensitivities previously listed. Since no one major is mandatory, the student should select one which emphasizes the areas mentioned above: for example administration, economics, English, history, philosophy, political science and sociology. For additional information, a student should read the bulletins or catalogs of various law schools or the *Official Prelaw Handbook*, current edition, prepared by the Law School Admission Test Council and the Association of American Law Schools. This handbook may be obtained at most college bookstores or ordered from Educational Testing Services, Princeton, N.J. 08540.
Institutional Memberships and Professional Certifications

Citrus College is proud of its memberships and certifications with the most credible and prestigious organizations in the country. These affiliations include, but are not limited to, the following:

**Behavioral Sciences**
California Child Development Administrators Association
Child Care Food Program Roundtable
National Association for the Education of Young Children

**Counseling**
California Association of Postsecondary Educators of the Disabled
South Coast Higher Education Council

**Fine and Performing Arts**
American Choral Directors Association
National Association of College Band Directors
Society of Professional Audio Recording Services

**Health Sciences**
Council on Dental Education of the American Dental Association

**Language Arts**
Associated Collegiate Press
International Writing Centers Association
Journalism Association of Community Colleges
Society for News Design

**Library Technology**
Council of Chief Librarians, California Community Colleges
Library Orientation Exchange Clearinghouse for Library Instruction
Metropolitan Cooperative Library System

**Public Services**
Maintenance Superintendents Association (MSA)

**Automotive Technology**
Automotive Engine Rebuilders Association (AERA)
Automotive Service Councils of California (ASC)
Bureau of Automotive Repair (BAR)
National Automotive Technicians Education Foundation (NATEF)
National Institute for Automotive Service Excellence (ASE)
Society for News Design
Specialty Equipment Market Association (SEMA)
State of California Department of Consumer Affairs
Toyota/Lexus/Scion Technician Training & Education Network (T-TEN)
How are Citrus College's Academic Programs Organized?
Academic Divisions, Departments, and Subjects (with subject codes)
(All telephone numbers are Area code 626)

**Business, Computer Science and Information Systems**

**Business**
914-8807
Accounting (ACCT)
Computer Science and Information Systems (CSIS)
Office Technology & Computer Applications (OFF)
Real Estate (REAL)

**Library Technology**
914-8640
Library Technology (LIBT)

**Career and Technical Programs**

**Cosmetology**
914-8710
Cosmetology (COS)

**Public Services**
914-8700
Heating and Air Conditioning (HEAT)
Public Works (PUB)
Water Technology (WATR)

**Technology & Engineering**
852-6402
Automotive Technology
Motorcycle Technology (MOTO)
Medium and Heavy Duty Truck Technology (MTRK)
Drafting Technology (DRAF)
Electronics (ELEC)
Engineering and Information Technology (ENGR)
Energy Systems Technology (EST)

**Counseling**
914-8530
College Preparation (COLL)
Counseling (COUN)
Disabled Student Programs & Services (DSPS)
914-8675

**Fine and Performing Arts**

**Fine Arts**
914-8580
Art (ART)
Photography (PHTO)

**Performing Arts**
914-8580
Dance (DANC)
Music (MUS)
Recording Technology (REC)
Theatre Arts (THEA)

**Language Arts**

**Foreign Languages**
914-8856
Chinese (CHIN)
French (FREN)
German (GER)
Japanese (JPN)
Spanish (SPAN)

**Mathematics and Health Sciences**
914-8792
Mathematics (MATH)

**Health Sciences**
914-8720
Dental Assisting (DENT)
Emergency Management (EMER)
Health Sciences (HEAL)
Nursing (NRS)
Registered Nursing/Associate Degree in Nursing (RNRS)
Vocational Nursing (VNRS)

**Physical Education**
914-8650
Physical Education (PE)

**Physical and Natural Sciences**
914-8789
Biology (BIOL)
Wildland Resources and Forestry (FOR)
Natural History (NAT)

**Physical Sciences**
914-8789
Astronomy (ASTR)
Chemistry (CHEM)
Earth Sciences (ESCI)
Physics (PHYS)

**Social and Behavioral Sciences**

**Social Sciences**
914-8860
Economics (ECON)
Geography (GEOG)
History (HIST)
Humanities (HUM)
Philosophy (PHIL)
Political Science (POLI)
Social Sciences (SOCS)

**Behavioral Sciences**
914-8860
Administration of Justice (AJ)
Anthropology (ANTH)
Child Development (CHLD)
Psychology (PSY)
Sociology (SOC)
|---------|--------------------------|----------|-----------|------------------|---------|---------------------|--------------|-------------------|-------------|------------|-------|------------------|-------------------|------------------|-------------|-----------|-----------|------------------|-------------------|----------|----------|--------------------------|-----------|--------|----------------|---------|-------------|----------------|-------------|----------|--------------|-------|----------------|-----------|----------------|----------|-------------|----------|----------|-----------|-----------------|
1. Course and Department Name

2. Course Number
The course numbering system distinguishes between courses that are degree applicable and those that are not. Units from courses numbered 001-099 are appropriate for financial aid and athletic eligibility, but may not be applied toward the units required for a degree. Units numbered 100-299 may apply toward the associate degree.

3. The units of credit that can be earned during a semester

4. Concurrent enrollment required in a related course

5. Course Description

6. Number of times a course may be taken for credit

7. Transferable course: designating that the course is transferable to the California State University (CSU) or the University of California (UC). To verify the transfer policies of other colleges and universities, consult a counselor.

8. Grade or P/NP: the student can choose to take the course to receive a pass/no pass grade instead of a letter grade.

9. The recommended reading level or skill preparation a student is expected to have in order to succeed in the coursework.

10. Prerequisite: a requirement that must be satisfied before enrolling in the course.

11. The number of lecture hours and lab hours the course offers during the semester or session in which it is offered.

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### Dance Courses

(See Also Music)

- **DANC 275**
  - Performance Ensemble
  - 3 Units
  - Grade or P/NP
  - Corequisites: DANC 171 or 172 and 261 or 262.
  - Dance ensemble designed to provide intermediate dance students performance experience in various dance styles. Course provides rehearsal and performance skill sharpening with the intent of public performance. Out of class rehearsal time may be necessary in order to complete production. Must be taken for two consecutive semesters in order to gain full potential from the course. This course may be taken four times. 18 lecture hours, 108 lab hours. CSU; UC

### French

(Foreign Languages Department)

- **FREN 101**
  - French I
  - 5 Units
  - Grade or P/NP
  - Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
  - A course in elementary French grammar, vocabulary, and pronunciation which focuses on understanding, speaking, reading, and writing simple French and serves as an introduction to the geography, history, and culture of the French-speaking world. 90 lecture hours, 18 lab hours. CSU; UC

- **FREN 102**
  - French II
  - 5 Units
  - Grade or P/NP
  - Prerequisite: FREN 101 or one year of high school French.
  - Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
  - A further study of the elementary French grammar and vocabulary which develops understanding, speaking, reading, and writing skills. Includes additional study of French. 90 lecture hours, 18 lab hours. CSU; UC
Accounting
(Business Department)

The Accounting Program encompasses an area of study which includes basic accounting, financial and managerial accounting principles, income tax accounting and accounting general ledger software. The Accounting Program within the Citrus College Business Department conducts the program with an outstanding faculty to prepare students for professional careers, transfer, and/or personal use. The program combines classroom lectures, demonstrations and a wide use of technology to ensure relevant training.

Accounting Courses

ACCT 100
Accounting
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
The objective of this course is to provide an elementary accounting background for business students. Course content includes development of the accounts through journalizing, cash journal entries, sales and purchases, posting, trial balance, work sheet and resultant financial statements. 72 lecture hours. CSU;UC

ACCT 101
Financial Accounting
4 Units
Strongly recommended: ACCT 100 or high school bookkeeping, or related job experience.
The objectives of this course are to learn the content and meaning of the basic financial statements and their impact on the decision-making process in the business environment. This course will provide a broad overview of the importance of accounting in the business process as well as introduce the student to the double entry system of accounting, how to record, process and report on the business transactions and events and to consider the operating cycles in business. Topical areas covered in this class will include cash, accounts, inventory, property, plant and equipment, intangible assets, current liabilities and stockholder equity. The importance of internal controls will be reviewed and the components of the income statement will also be discussed. 72 lecture hours. CSU;UC

ACCT 101H
Financial Accounting/Honors
4 Units
Strongly recommended: Accounting 100 or high school bookkeeping; or related job experience.
Examines the fundamental concepts of financial accounting such as: the basic financial statements; the double entry system of accounting; financial analysis and internal controls. Analyze financial data to evaluate performance and formulate appropriate course of action in the business environment. Students are expected to work and participate at an honors level which includes advanced critical thinking skills, more in depth analysis of financial statements and presentation skills as demonstrated by group presentations, class participation and case study analysis. 72 lecture hours. CSU;UC

ACCT 102
Managerial Accounting
4 Units
Prerequisite: ACCT 101.
The objectives of this course are to finish reviewing financial accounting concepts and to discuss cost and managerial accounting. Financial accounting concepts such as long-term debt and cash flows will be covered before moving into the area of managerial accounting. Managerial accounting objectives are to provide management and employees timely feedback on the performance of the company operations so that management can plan ahead and make appropriate business decisions. Tools and techniques to evaluate efficiency and profitability such as process costing, break-even analysis, variance analysis and capital budgeting will be reviewed. 72 lecture hours. CSU;UC

ACCT 110
Income Tax Accounting
4 Units
Grade or P/NP
A course designed to study the federal income tax process, federal income tax laws that apply to individuals, and the application of tax principles to specific problems. Topics include gross income and exclusions, business deductions and itemized deductions, losses, certain tax credits and property transactions. Study is also made of California income tax laws in those areas which differ from federal tax law. 72 lecture hours. CSU

ACCT 115
QuickBooks
2 Units
Prerequisite: ACCT 101.
Instruction in QuickBooks, a computerized accounting system for business. Reinforces concepts developed in introductory accounting course. 36 lecture hours.

Administration of Justice
(Behavioral Sciences Department)

Administration of Justice offers men and women a career of personal challenge and rewarding public service. A great need exists for intelligent, well-educated personnel with a firm commitment toward professional improvement in the justice system. Citrus College offers courses to prepare students for employment and promotion in the criminal justice system.

Administration of Justice Courses

AJ 101
Introduction to the Administration of Justice
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
The history and philosophy of administration of justice in America; recapitulation of the system; identifying the various subsystems; role expectations, and their inter-relationships; theories of crime, punishment, and rehabilitation; ethics, education and training for professionalism in the system. 54 lecture hours. CSU;UC

AJ 102
Concepts of Criminal Law
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
The philosophy and historical development of law, including the provisions of the U.S. Constitution. The concepts and definitions necessary to relate court decisions to statutes including those specific to correctional institutions. 54 lecture hours. CSU;UC

AJ 103
Legal Aspects of Evidence
3 Units
Prerequisite: AJ 102.
Origin, development, philosophy and constitutional basis of evidence, constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies. 54 lecture hours. CSU

AJ 105
Criminal Investigation
3 Units
Prerequisite: AJ 101.
Fundamentals of investigation and the techniques of crime scene recording and search. The collection and preservation of physical evidence, modus operandi processes, sources of information, interview and interrogation, follow-up, and case preparation. 54 lecture hours. CSU
AJ 106  
Patrol Procedure  
3 Units  
Grade or P/NP  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
This course is a study of the responsibility, techniques, and methods of police patrol. This includes the areas of patrol distribution, selective enforcement, pull over and approach methods, emergency pursuit driving, search of suspects and buildings, field interrogations, and procedures in handling police-called-for "services." 54 lecture hours. CSU

AJ 107  
Traffic Control  
3 Units  
Grade or P/NP  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
A study covering traffic law enforcement regulation and control, fundamentals of traffic accident investigation, and the California Vehicle Code. 54 lecture hours. CSU

AJ 108  
Juvenile Procedures  
3 Units  
Grade or P/NP  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
The techniques of handling juvenile offenders and victims, the prevention and repression of delinquency, juvenile law and procedure, the organization of community resources, and diagnosis and referral. 54 lecture hours. CSU

AJ 109  
Criminal Procedures  
3 Units  
Prerequisite: AJ 101 with min. grade of C.  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
Legal processes from pre-arrest, arrest through trial, sentencing and correctional procedures; a review of the history of case and common law; conceptual interpretations of law as reflected in court decisions; a study of case law methodology and case research as the decisions impact upon the procedures of the justice system. 54 lecture hours. CSU

AJ 111  
Narcotics and Vice Control  
3 Units  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
History, identification, and effects of narcotics. Current narcotic and vice problems. Special consideration will be given laws affecting the control of narcotics and vice. 54 lecture hours. CSU

AJ 112  
Community Relations  
3 Units  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
An in depth exploration of the roles of the administration of justice practitioners and their agencies. Through interaction and study the student will become aware of the interrelationships and role expectations among the various agencies and the public. Principal emphasis will be placed upon the professional image of the system of justice administration and the development of positive relationships between members of the system and the public. 54 lecture hours. CSU; UC

AJ 118  
Police Supervision  
3 Units  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
Covers duties and responsibilities of first line police supervisors, including: leadership qualities, civil service disciplinary procedures, employee morale, performance evaluation, employee selection and transfer procedures, grievance procedures, and psychological aspects of supervision. Emphasis on special problems of supervising sworn police personnel. 54 lecture hours. CSU

AJ 123  
Writing for Criminal Justice Professionals  
3 Units  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
Techniques for communicating facts, information, and ideas effectively in a simple, clear, and logical manner in various types of criminal justice reports: letters, memorandum, directives, and administrative reports. Emphasis is on criminal justice terminology, use of English, and organization of information. Students will practice note taking and report writing as well as presentation of testimony in court. 54 lecture hours. CSU

AJ 130  
Introduction to Probation and Parole  
3 Units  
Grade or P/NP  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
A survey of the role of probation and parole in today’s criminal justice system. Career opportunities available in probation and parole work will be included. 54 lecture hours. CSU

AJ 131  
Introduction to Corrections  
3 Units  
Grade or P/NP  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
A survey of the field of correctional science. Historical development, current concepts and practice, 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 and survey of professional career opportunities in public and private agencies. 54 lecture hours. CSU

AJ 133  
Correctional Writing  
3 Units  
Grade or P/NP  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
The practical aspects of gathering, organizing, and preparing written reports for correctional activities on local, state, and federal levels. Emphasis on techniques of communicating facts and ideas effectively in the criminal justice system context. Practical experience in note taking, report writing, and testifying in court. 54 lecture hours. CSU

AJ 135  
Control and Supervision in Corrections  
3 Units  
Grade or P/NP  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
Supervision of inmates in the local, state, and federal correctional institutions. Emphasis on the role of the offender and the correctional worker on a continuum from institutional living through crisis situations. Included are inmate subculture, violence and effects of crowding along with coping techniques for correctional officers. Causes and effects of abusive tactics. 54 lecture hours. CSU

AJ 136  
Correctional Interviewing and Counseling  
3 Units  
Grade or P/NP  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
The techniques in counseling and interviewing available to practitioners in Corrections. The student will learn the use of appropriate techniques and theories in confidence building which may be used by the correctional employee in client interviews and counseling. 54 lecture hours. CSU
AJ 137
Legal Aspects of Corrections
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
The historical framework, concepts, and precedents that guide correctional practice. Course material will broaden the individual's perspective of the corrections environment, the civil rights of prisoners, and responsibilities and liabilities of corrections officials. 54 lecture hours. CSU

AJ 698A
Cooperative Education
1 Unit
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Administration of Justice at their place of volunteer employment or training sites. This course may be taken four times. 60 lab hours arranged per semester.

AJ 698B
Cooperative Education
2 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Administration of Justice at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

AJ 698C
Cooperative Education
3 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Administration of Justice at their place of volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

AJ 698D
Cooperative Education
4 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Administration of Justice at their place of volunteer employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

AJ 699A
Cooperative Education
1 Unit
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Administration of Justice at their place of volunteer employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

AJ 699B
Cooperative Education
2 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Administration of Justice at their place of paid employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.

AJ 699C
Cooperative Education
3 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Administration of Justice at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.

AJ 699D
Cooperative Education
4 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Administration of Justice at their place of paid employment or training sites. This course may be taken four times. 300 lab hours arranged per semester.

Anthropology
(Behavioral Sciences Department)
The Anthropology program has several course offerings that fulfill the major requirements for the Associate in Arts degree behavioral Sciences major, the 18-unit requirement of the Associate in Science degree, the category D requirement for Cal State transfers, and behavioral science requirements for UC transfers. In addition the Anthropology program promotes multiculturalism in the classroom, as well as, illustrating the benefits in supporting a pluralistic lifestyle.

Anthropology Courses
ANTH 210
Introduction to Cultural Anthropology
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Students will critically examine various societies around the world using basic cultural concepts such as marriage, family, art, food production, political organization, and religion. The class is designed to foster a pluralistic view of the world, teach introductory anthropological concepts, and strengthen critical thinking. College level reading is strongly advised for success in the course. 54 lecture hours. CSU; UC

ANTH 210H
Introduction to Cultural Anthropology/Honors
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Students will critically examine various societies around the world using basic cultural concepts such as marriage, family, art, food production, political organization, and religion. The class is designed to foster a pluralistic view of the world, teach introductory anthropological concepts, and strengthen critical thinking. College level reading is strongly advised for success in
ANTH 212
Introduction to Physical Anthropology
3 Units
Corequisite: ANTH 212L. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An introductory study of the biological origin of humans. The course will emphasize the biology of humans, human evolution, taxonomy, pre human fossil identification, and adaption to the environment. An optional laboratory component is available. College level reading is highly recommended for success in the course. 54 lecture hours. CSU;UC

ANTH 212L
Introduction to Physical Anthropology Lab
3 Units
Corequisite: ANTH 212. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course is the lab component for Introduction to Physical Anthropology 212. In the lab students will have an expanded opportunity to work with anatomy, skeletal identification, taxonomy, and evolutionary trends. Concurrent enrollment with ANTH 212 is required. College level reading is high recommended for success in the course. 54 lab hours. CSU;UC

ANTH 214
Native North America
3 Units
A survey of North American Indigenous people both past and present through culture areas, ethnicity, and language. A frank look at the stereotyped image of Native Americans. 54 lecture hours. CSU;UC

ANTH 216
Introduction to Physical Anthropology
3 Units
A cross-cultural look at different groups ideas of sex and gender. The course will focus on attitudes, beliefs, and socialization techniques. Theories behind the formation of gender will be explored. Both Anthropological and Sociological terms and concepts will be utilized for a cross disciplinary approach. This is primarily a seminar style course, college level reading and participation is necessary for successful completion. 54 lecture hours. CSU;UC

ANTH 216H
Sex and Gender in a Cross Cultural Perspective/Honors
3 Units
A cross-cultural look at different groups ideas of sex and gender. The course will focus on attitudes, beliefs, and socialization techniques. Theories behind the formation of gender will be explored. Both Anthropological and Sociological terms and concepts will be utilized for a cross disciplinary approach. College level reading is strongly advised for success in the course. Students are expected to work and participate at an honors level which includes strong critical thinking skills, thorough analysis of readings, presentations, and leadership skills demonstrated through class participation/presentation. 54 lecture hours. CSU;UC

ANTH 218H
Honors Presentation Seminar
1 Unit
Strongly Recommended: READ 099 if required by reading placement exam or if required by reading level.
Member in good standing of the Citrus College Honors Program. Recommendation from an Honors Instructor.
A course designed to help honors students further their research skills, professional presentation skills, and to promote transfer. Research topics from previous honors classes will be enhanced with further research and presented in a professional manner in class. Materials will also be submitted to local honors conferences for presentation to peers. Honors students should be in good standing and must be recommended by an honors professor. 18 lecture hours. CSU

ANTH 220
Introduction to Archeology
3 Units
Strongly Recommended: READ 099 if required by reading placement exam or if required by reading level.
An introductory study of the science of archaeology. The course will emphasize the evolution of human material culture, the laws and theories governing the science of archaeology, archaeological processes, and the realities of archaeology versus popular culture definitions. College level reading is strongly recommended for success in the course. 54 lecture hours. CSU;UC

ANTH 220H
Honors Introduction to Archeology
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A study of the basic art principles and elements of the history of western art from its prehistoric beginnings to the fall of Rome. Some of the course content is concerned with the appreciation of art as well as its history. 54 lecture hours. CSU;UC

ART 100
Art History and Appreciation - Fundamentals
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A study of the basic art principles and elements and how they are applied to art forms from prehistoric times to the present. 54 lecture hours. CSU;UC

ART 101
Art History and Appreciation-Ancient
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course covers the history of western art from its prehistoric beginnings to the fall of Rome. Some of the course content is concerned with the appreciation of art as well as its history. 54 lecture hours. CSU;UC

ART 102
Art History and Appreciation - Medieval
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course covers the history of western art from the fall of Rome to the beginning of the Renaissance. Some of the course content is concerned with the fundamentals of art appreciation as well as its history. 54 lecture hours. CSU;UC

ART 103
Art History and Appreciation - Renaissance to Rococo
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course covers the history of western art from the early Renaissance through the Rococo period. This course is concerned with both the history of art and the fundamentals of the appreciation of art. 54 lecture hours. CSU;UC

The Art curriculum offers instruction in art theory, practice and history. These three areas of study constitute the foundation courses needed to begin a career in commercial art (for example, illustration, graphics, etc.) or fine arts (for example, painting, ceramics, etc.). The foundation courses meet prerequisite requirements to UC, CSU systems and four-year art schools.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Grade Option</th>
<th>Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 104</td>
<td>Art History and Appreciation - 19th Century Art</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. This course covers the history and fundamental appreciation of western art from the French Revolution to c. 1900 A.D. 54 lecture hours. CSU;UC</td>
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<tr>
<td>ART 105</td>
<td>Art History and Appreciation - Early 20th Century Art</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. This course covers the history of western art from the late 19th century to mid 20th century. The course is concerned with the fundamentals of art appreciation as well as the history of our times. 54 lecture hours. CSU;UC</td>
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<tr>
<td>ART 106</td>
<td>Art History and Appreciation - Pre-Columbian</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. The study of pre-Columbian cultures and art, e.g. Aztec, Mayan, Zapotec, etc. Some of the course content is concerned with the fundamentals of art as well as its history. 54 lecture hours. CSU;UC</td>
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<tr>
<td>ART 110</td>
<td>Introduction to Visual Arts</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. A course designed to further the general education of all students. Students will be introduced to the visual arts through aesthetics, critique, history, and by creating art using various mediums. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU;UC</td>
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<tr>
<td>ART 111</td>
<td>Beginning Drawing</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. A basic course in drawing and composition to develop a student's ability to perceive and define shape, mass, contour, volume, space and light, using a variety of media and subject matter. This course is required of all art majors. 36 lecture hours, 72 lab hours. CSU;UC</td>
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<tr>
<td>ART 112</td>
<td>Intermediate Drawing</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Prerequisite: ART 111. Emphasis is on conceptual art through advanced, imaginative and subjective approaches to drawing. Includes experimental use of media, theoretical and conceptual approaches to content, and examination of aesthetics within contemporary drawing concerns. Required of all art majors. 36 lecture hours, 72 lab hours. CSU;UC</td>
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<tr>
<td>ART 113</td>
<td>Drawing for Spatial Manipulation</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Prerequisite: ART 111. An advanced study of form in space, including various types of linear perspective and other standard methods for depicting shallow and deep space on a two dimensional surface. Standard drawing tools and media are used. A foundation course for illustration, animation, design, architecture, and fine arts. 36 lecture hours, 72 lab hours. CSU;UC</td>
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<tr>
<td>ART 115</td>
<td>Figure Drawing I</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Strongly Recommended: READ 099 if required by reading placement exam or if required by reading level. An introduction to the structural understanding of the human form, based on study of the figure in history, theory, and aesthetics and its practical application to drawing from live model. Offered for Grade or P/NP grading only. This course may be taken three times. 36 lecture hours, 72 lab hours. CSU;UC</td>
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<tr>
<td>ART 116</td>
<td>Figure Drawing II</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Prerequisite: Art 115. A continuation of the structural study of the figure with emphasis on the exploration of expressive concepts, media, and techniques. Included will be reading for historical, theoretical, and aesthetic application to class material. This course may be taken three times. 36 lecture hours, 72 lab hours. CSU;UC</td>
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<tr>
<td>ART 120</td>
<td>Two-Dimensional Design</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. An investigation of the elements of art: especially color and composition. Emphasis is placed on individual solutions to visual problems by observing the principles of design. Required of all art majors. 36 lecture hours, 72 lab hours. CSU;UC</td>
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<tr>
<td>ART 121</td>
<td>Three-Dimensional Design</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Prerequisite: ART 120. Experiments involving the design elements and principles in the creation of three-dimensional form and space relationships. Critical evaluation of designs for aesthetic, technical, and theoretical concerns. Required of all art majors. 36 lecture hours, 72 lab hours. CSU;UC</td>
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<tr>
<td>ART 122</td>
<td>Color Theory and Composition</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Prerequisite: ART 120. The course advances beyond color theory and composition received in ART 120. Emphasis is on the use of color to communicate concepts through the study of established color theory. Excellent for illustrations, graphics, and fine art majors. 36 lecture hours, 72 lab hours. CSU;UC</td>
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<tr>
<td>ART 125</td>
<td>Interior Design I</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. A study of the principles of design, color, furniture history, space planning, architectural history and drafting techniques. 36 lecture hours, 18 lab hours. CSU</td>
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<tr>
<td>ART 126</td>
<td>Interior Design II</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Prerequisite: ART 125. A study of textile fibers and fabric construction, fabric characteristics, hard and soft floor coverings, window treatments, wall covering, case and upholstered furniture, lighting, purchasing and drafting. 36 lecture hours, 18 lab hours. CSU</td>
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<tr>
<td>ART 130</td>
<td>Beginning Painting</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Prerequisite: ART 130. An objective approach to form, space, and color concepts using oil or acrylic paint. Includes critical examination of paintings for technical and aesthetic concerns, content, and historical/cultural influences. 36 lecture hours, 72 lab hours. CSU;UC</td>
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<tr>
<td>ART 131</td>
<td>Intermediate Painting</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Prerequisite: ART 130. Development of expressive painting concepts and techniques in oil and acrylic, with emphasis on historical, theoretical, and cultural meanings. Standard painting media. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU;UC</td>
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ART 140
Beginning Ceramics
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course explores basic techniques of pottery making. It includes handbuilding and throwing on the potter’s wheel. Emphasis is on understanding the qualities of clay, appreciation of basic pottery forms, simple glazing technique and the development of personal expression. 36 lecture hours, 72 lab hours. CSU;UC

ART 141
Intermediate Ceramics
3 Units
Prerequisite: ART 140.
This course further develops basic pottery skills by introducing new forms on the potter’s wheel and additional decorating techniques. This course may be taken four times. 36 lecture hours, 72 lab hours. CSU;UC

ART 142
Experimental Ceramics
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course for beginning to advanced students to explore the creative possibilities of clay in a workshop setting. Individual projects using handbuilding or the potter’s wheel will be used to create sculpture or pottery. This course may be taken four times. 36 lecture hours, 72 lab hours. CSU;UC

ART 143
Ceramic Handbuilding
3 Units
This course is an introduction to ceramic handbuilding techniques and processes. Traditional methods of forming, joinery and construction are introduced. This course may be taken four times. 36 lecture hours, 72 lab hours. CSU;UC

ART 145
Ceramic Design and Decoration
3 Units
Prerequisite: ART 141.
This course involves hand built and wheel thrown projects that investigate problems in pottery form and surface enhancement. Other related topics include the effect of various firing methods and exhibit preparation. This course may be taken four times. 36 lecture hours, 72 lab hours. CSU;UC

ART 146
Ceramics: Tile and Mosaic
3 Units
This course will explore techniques in creating and glazing handmade tile, from Cuenca to Cuenca Seca. The tile industry, cutting, grouting and installation will also be explored. Mosaic techniques will be a secondary focus. This course may be taken four times. 36 lecture hours, 72 lab hours. CSU;UC

ART 149
Studio Problems in Ceramics
1 Unit
Prerequisite: ART 141.
Independent study involving intermediate or advanced projects in studio ceramics. Materials used include clay, engobe, stain and glaze, firing techniques, studio practices, display and exhibition design is included. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC

ART 150
Computer Art Basics
3 Units
This introductory computer art course is designed for people interested in learning the basics of computer art. Adobe Illustrator and Photoshop are utilized to create computer graphics and Microsoft Word is used for word processing. PC computers with the Windows operating system, printers, scanners, and digital cameras are also explored in this course. Course may be taken three times. 36 lecture hours, 72 lab hours. CSU

ART 153
Digital Media Production I
3 Units
Grade or P/NP
Strongly recommended: ART 150 or Portfolio review.
An overview of multimedia production and associated technology. The course will use Illustrator, Photoshop and other software in the development of graphic presentations for use in business and communications. Students will be provided an opportunity to produce computer graphics merging images and text for large format printing. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU

ART 155
Digital Color File Manipulation
3 Units
This course introduces the student to the various computer file formats and appropriate color manipulation mandated for each. Included are CMYK, RGB, Web, Pantone usage for the printing industry, printmaking and the web, as applied to digital prepress and media. Software includes Quark, Adobe Photoshop, Illustrator, and Dreamweaver. 36 lecture hours, 72 lab hours. CSU

ART 157
Digital Color File Manipulation
3 Units
Grade or P/NP
Strongly recommended: ART 111 and 150.
Emphasis on computer technology in the development of images for commercial illustration and fine art purposes. Includes software and peripheral hardware use, presentation approaches, aesthetics, and other content considerations. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU
ART 167
World Wide Web Design I
3 Units
An overview of World Wide Web design and publishing. This course will use various developmental tools in the design of pages to be used on the Internet for commercial or personal use. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU

ART 168
Animation I
3 Units
Prerequisite: ART 150. Also, READ 099 if required by reading placement exam or if required by reading level.
The focus of this course is to introduce the fundamentals of two-dimensional animation with emphasis on the computer as a tool. Student projects involve scripting, storyboarding, action, transition, and timing character development, and portfolio enhancement. This course may be taken three times. 36 lecture hours, 72 lab hours. CSU;UC

ART 180
Beginning Clay Sculpture
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Clay sculpture classes will include clay techniques, application of color, sculpting methods, and sculpture concepts. Students will learn the fundamentals of building and coloring ceramic hand built sculpture. 36 lecture hours, 72 lab hours. CSU;UC

ART 181
Intermediate Clay Sculpture
3 Units
Prerequisite: ART 180.
Intermediate clay sculpture classes will include modeling techniques, application of color, sculpting methods and sculpture concepts. Students may work with human models, animals, birds and other topics with emphasis on composition and craftsmanship. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU;UC

ART 182
Advanced Clay Sculpture I
3 Units
Prerequisite: ART 181.
Clay sculpture classes will include clay techniques, application of color, sculpting methods, and sculpture concepts. Students will design and construct medium size hand built sculpture of the human model, human head, animal, bird, or other topic. This course may be taken four times. 36 lecture hours, 72 lab hours. CSU;UC

ART 183
Advanced Clay Sculpture II
3 Units
Prerequisite: ART 182.
Clay sculpture classes will include clay techniques, application of color, sculpting methods, and sculpture concepts. Students will design and construct large hand built sculpture pieces of the human model, human head, animal, bird, or other topic. 36 lecture hours, 72 lab hours. CSU;UC

ART 184
Sculpture and Metalwork
3 Units
Prerequisite: ART 121.
An introduction of sculpture materials and techniques. Student explores potential of expressive form, structure, and space in various materials and processes. Study of aesthetics, technique and theoretical concerns as applied to sculpture. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU

ART 188
Multimedia Portfolio and Resume Production
3 Units
Prerequisites: ART 162 and ART 253.
Creative organization and presentation of a body of art/design work exhibiting portfolio-quality aptitude. CGI (Computer Graphic Imaging) and traditional art/design will be included. Portfolio presentation to include any or all of the following, based on area of student’s expertise: Print/collateralmaterials, signage, company ID, slides, Web page design, video and audio type, and traditional renderings. Additionally, compilation of a professional resume and mock interviews will be completed by each student. 36 lecture hours, 72 lab hours. CSU

ART 189
Art Portfolio and Resume Production
3 Units
Prerequisites: ART 162 and ART 153.
An advanced course to prepare a body of portfolio quality student art/design work for the purpose of a job interview or advanced university placement. The final presentation will be based on the students’ area of expertise and may include advanced levels of traditional and computer (CGI) art and graphics. Additionally, the production of a professional appearing resume plus participation in mock interviews will be a part of the class. 36 lecture hours, 72 lab hours. CSU

ART 199
Motion Picture Appreciation
3 Units
Prerequisite: ART 111.
Emphasis on the use of alternative drawing media such as pastels, watercolor, colored pencils, and mixed media in the expression of concepts for illustration and fine arts. 36 lecture hours, 72 lab hours. CSU;UC

ART 200
History of Motion Pictures
3 Units
Prerequisite: ART 162
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An introductory course in motion picture history covering the years 1895-1945. The historically significant technical and thematic developments of world cinema are analyzed in detail in the context of production systems. 36 lecture hours. CSU;UC

ART 201
History of Motion Pictures
3 Units
Prerequisite: ART 162
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A second semester introductory course continuing with the study of motion picture history covering the years 1945-present. The historically significant thematic developments in world cinema are analyzed in a technical and production context. 36 lecture hours. CSU;UC

ART 206
History of Latin American Art
3 Units
Prerequisite: ART 162
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Survey of the art of Mexico and Central and South America from the Spanish Colonial period forward to the present. 36 lecture hours. CSU;UC

ART 207
History of Asian Art-China, Korea and Japan
3 Units
Prerequisite: ART 162
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Survey of the arts of ancient China and their influence on the historical development of Korean and Japanese art forms throughout the 19th century, Asian culture and philosophies, and their relation to the developing art forms. 36 lecture hours. CSU;UC

ART 213
Advanced Drawing-Pastels and Mixed Media
3 Units
Prerequisite: ART 111.
Emphasis on the use of alternative drawing media such as pastels, watercolor, colored pencils, and mixed media in the expression of concepts for illustration and fine arts. 36 lecture hours, 72 lab hours. CSU;UC
ART 217
Head Drawing and Painting
3 Units
Prerequisite: ART 215.
The course establishes a foundation for the traditional study of the human head from life and progressing to contemporary approaches in portraiture via historical and contemporary concerns. The class will include aesthetics, technique, and context. Work in standard drawing and painting media. 36 lecture hours, 72 lab hours. CSU; UC

ART 218
Head Drawing and Painting II
3 Units
Prerequisite: ART 217.
A continuation of the structural study of the human head from life with emphasis on painting concepts, media, and techniques. Included will be reading for historical, theoretical, and aesthetic application to class material. 36 lecture hours, 72 lab hours. CSU; UC

ART 225
Illustration
3 Units
Prerequisites: ART 111 and 120.
Introduction to the study of techniques and methods utilized in illustration. Emphasis is on the use of design elements in creating effective graphics for use in visual advertising communications. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU

ART 226
Illustration/Airbrush
3 Units
Prerequisite: ART 225.
Applying the principles and methods of illustration to actual situations. Emphasis is on the refinement of individual visual solutions and portfolio presentation. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU

ART 230
Advanced Painting
3 Units
Prerequisites: ART 130 and 131.
Personalized exploration of expressive painting concepts and techniques in oil and acrylic paint. Includes critical examination of paintings for technical and aesthetic concerns, content, and historical/cultural influences. This course may be taken three times. 36 lecture hours, 72 lab hours. CSU

ART 234
Beginning Watercolor Painting
3 Units
Prerequisite: ART 111.
Introduction to watercolor technique and its application to the basic elements of pictorial art. Communicating in watercolor with emphasis on composition and structure by designing and ordering the picture plane. 36 lecture hours, 72 lab hours. CSU; UC

ART 235
Intermediate Watercolor Painting
3 Units
Prerequisite: ART 234.
Intermediate experience in watercolor painting with emphasis on composition for communicating desired concept. Development of intermediate painting concepts and techniques based on historical, cultural, theoretical, and cultured meanings. 36 lecture hours, 72 lab hours. CSU; UC

ART 236
Advanced Watercolor Painting
3 Units
Prerequisite: ART 235.
Advanced application of watercolor media to conceptual and meaningful subject matter. Emphasis on the aesthetic, content, art historical, and contemporary aspects of watercolor painting. This course may be taken four times. Offered for Grade or P/NP grading only. 36 lecture hours, 72 lab hours. CSU; UC

ART 240
Advanced Ceramics I
3 Units
Prerequisite: ART 141.
An advanced course in pottery with an emphasis on larger forms and development of a distinctive style. Also included is glaze technology and basic kiln operation. This course may be taken four times. 36 lecture hours, 72 lab hours. CSU; UC

ART 241
Advanced Ceramics II
3 Units
Prerequisite: ART 240.
A broader experience in ceramics is the emphasis of this course. Independent visits to craft galleries and special exhibits, research on selected topics and time to explore new ideas in clay. This course may be taken four times. 36 lecture hours, 72 lab hours. CSU; UC

ART 243
Intermediate Ceramics
3 Units
Prerequisite: ART 241.
A more advanced study of two and three dimensional work in ceramics. Introduction to various clay body recipes and methods of handling clay. Emphasis on the refinement of individual visual solutions and portfolio presentation. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU; UC

ART 253
Digital Media Production II
3 Units
Prerequisite: ART 153.
Strongly Recommended: READ 099 if required by reading placement exam or if required by reading level.
An introduction to the interactive aspects of computer graphics and the association with multimedia, entertainment and advertising. This course will use currently available software in the development of creative and innovative multimedia presentations appropriate to industry, business and community. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU

ART 257
Projects: Advanced Digital Portfolio
3 Units
Prerequisites: ART 163, 253, 267 and DRAF 190.
Creative organization and presentation of a body of digital design work exhibiting a professional attitude; portfolio presentation of examples illustrating knowledge in software including Quark, Adobe Photoshop, and Illustrator; web and animation software. Presentation will include a resume and a self-promotional piece using software of student choice. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU

ART 266
Computer Illustration and Fine Arts
3 Units
Prerequisite: ART 166.
A more advanced study of two and three dimensional computer software for the production of illustration and fine art images. Includes presentation approaches, peripheral hardware use, analysis of aesthetic and other content concerns. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU

ART 267
Web Design II
3 Units
Prerequisite: ART 167.
Advanced application and integration of WEB language and software on specific projects. Students to work on creative, applicable utilization of various programs including, but not limited to HTML, JAVA software, Macromedia Dreamweaver, Fireworks and Flash along with Adobe Photoshop. Emphasis will be placed on design, animation, quality, and application employment-related situations. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU

ART 268
Animation II
3 Units
Prerequisite: ART 168.
This intermediate level animation course focuses on the development of one’s personal creativity and the improvement of computer skills with the goal of producing a personal video portfolio. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU
Cooperative Education Courses

ART 698A
Cooperative Education
1 Unit  Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Art at their place of volunteer employment or training sites. This course may be taken four times. 60 hours lab arranged per semester.

ART 698B
Cooperative Education
2 Units  Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Art at their place of volunteer employment or training sites. This course may be taken four times. 120 hours lab arranged per semester.

ART 698C
Cooperative Education
3 Units  Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Art at their place of volunteer employment or training sites. This course may be taken four times. 180 hours lab arranged per semester.

ART 698D
Cooperative Education
4 Units  Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Art at their place of volunteer employment or training sites. This course may be taken four times. 240 hours lab arranged per semester.

ART 699A
Cooperative Education
1 Unit  Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Art at their place of paid employment or training sites. This course may be taken four times. 75 hours lab arranged per semester.

ART 699B
Cooperative Education
2 Units  Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Art at their place of paid employment or training sites. This course may be taken four times. 150 hours lab arranged per semester.

ART 699C
Cooperative Education
3 Units  Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Art at their place of paid employment or training sites. This course may be taken four times. 225 hours lab arranged per semester.

ART 699D
Cooperative Education
4 Units  Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Art at their place of paid employment or training sites. This course may be taken four times. 300 hours lab arranged per semester.

Astronomy Courses

ASTR 115
Planetary Astronomy
3 Units  Grade or P/NP
Strongly recommended: MATH 130.
Also, READ 099 if required by reading placement exam or if required by reading level.
The astronomy of the solar system including the history of astronomy, Newton’s and Kepler’s laws, light, telescopes, the sun, terrestrial and giant planets, satellites, comets, meteors, and the origin of the solar system. 54 lecture hours. CSU;UC

ASTR 115H
Planetary Astronomy/Honors
3 Units  Grade or P/NP
Strongly recommended: MATH 130.
Also, READ 099 if required by reading placement exam or if required by reading level.
The astronomy of the solar system including the history of astronomy, Newton’s and Kepler’s laws, light, telescopes, the sun, terrestrial and giant planets, satellites, comets, meteors, and the origin of the solar system. Students are expected to work and participate at an honors level which includes strong critical thinking skills, thorough analysis of astronomical readings, presentation, and leadership skills, demonstrated through class participation/presentation, and service learning in the community. 54 lecture hours. CSU;UC

ASTR 116
Stellar Astronomy
4 Units  Grade or P/NP
Strongly recommended: MATH 130.
Also, READ 099 if required by reading placement exam or if required by reading level.
The fundamental areas of stellar astronomy including the structure, classification and evolution of stars, galaxies and the universe, in stellar matter, and the theories of Newton and Einstein. Laboratory exercises include: energy and forces, light, optics, telescopes, stars and their classification, and galaxies. 54 lecture hours, 54 lab hours. CSU;UC

Astronomy (Physical and Natural Sciences Department)

Astronomy is concerned with celestial bodies and their structure, origin and fate.
### ASTR 117
Life In The Universe
3 Units
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*

The original and evolution of life on Earth, the processes and conditions relevant to life elsewhere in the universe, and the ongoing search for extraterrestrial life. 54 lecture hours. CSU;UC

### Automotive Technology
(Technology & Engineering Department)

This program is designed to prepare students for employment in the automotive service, diagnosis and repair industry or qualify them for a more responsible position within the field. Courses prepare students for Automotive Service Excellence (ASE) Certification.

### Automotive Technology Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 100</td>
<td>Automotive Technology and Maintenance for the Consumer</td>
<td>3</td>
<td>Automotive Technology and Maintenance for the Consumer. 54 lecture hours. Intended for non-majors.</td>
</tr>
<tr>
<td>AUTO 101</td>
<td>Fundamentals of Automotive Service, Diagnosis and Repair</td>
<td>5</td>
<td>Fundamentals of Automotive Service, Diagnosis and Repair. 72 lecture hours. Intended for automotive majors.</td>
</tr>
<tr>
<td>AUTO 130</td>
<td>Basic Smog Technician</td>
<td>2</td>
<td>Basic Smog Technician. 72 lecture hours. 54 lab hours.</td>
</tr>
<tr>
<td>AUTO 131</td>
<td>Advanced Smog Technician</td>
<td>2</td>
<td>Advanced Smog Technician. 72 lecture hours. 54 lab hours.</td>
</tr>
<tr>
<td>AUTO 135</td>
<td>Bureau Auto Repair (Bar) II</td>
<td>1</td>
<td>Bureau Auto Repair (Bar) II. 54 lecture hours.</td>
</tr>
<tr>
<td>AUTO 136</td>
<td>Chassis Systems</td>
<td>1</td>
<td>Chassis Systems. 54 lecture hours.</td>
</tr>
<tr>
<td>AUTO 140</td>
<td>Principles of Automotive Technology</td>
<td>3</td>
<td>Principles of Automotive Technology. 72 lecture hours. 54 lab hours.</td>
</tr>
<tr>
<td>AUTO 141</td>
<td>Engine Mechanical Systems</td>
<td>4</td>
<td>Engine Mechanical Systems. 72 lecture hours.</td>
</tr>
<tr>
<td>AUTO 142</td>
<td>Drivetrain Systems</td>
<td>5</td>
<td>Drivetrain Systems. 72 lecture hours. 54 lab hours.</td>
</tr>
</tbody>
</table>

### prerequisites

- **AUTO 101**
- **AUTO 100**
- **MATH 129** or higher and **ENGL 100** or higher.
- **MATH 029** or higher or **ENGL 100** or higher.
- **MATH 029** or higher or **ENGL 100** or higher.
- **MATH 029** or higher or **ENGL 100** or higher.

### Notes

- **AUTO 144**
  - **Chassis Systems**
  - **5 Units**
  - **Graduate or P/NP**
  - **Prerequisite: AUTO 101.**
  - **Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.**

- **Other:** one year of employment as an automotive technician.

- Generally intended for those students majoring in automotive technology and currently employed with an automotive service/repair establishment. This course includes limited laboratory time. The greatest benefit will be realized for those students with the ability to take the course content and apply it to their place of employment. The course covers essential chassis theory; inspection, diagnosis, service, and repair of the following undercar systems: brake, steering, suspension, alignment, wheels and tires. Ride control and ABS are introduced. The course prepares students for ASE Suspension and Steering (A4) and ASE Brakes (A5) certification. 72 lecture hours, 54 lab hours.
AUTO 145  
Automotive Service Consulting  
3 Units  
Strongly recommended: AUTO 100.  
Also, READ 099 if required by reading placement exam or if required by reading level.  
Course focuses on the customer service skills required for automotive service consultants. Course includes new car warranties, implied warranties, service contracts, warranty labor operations, California common laws, Bureau of Automotive Repair (BAR), write it right techniques, parts and labor estimating, customer relations, internal relations, and communication skills. Prepares students for ASE C1 certification. 54 lecture hours.

AUTO 146  
Automotive Electrical Systems  
4 Units  
Grade or P/NP  
Prerequisite: AUTO 101  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, MATH 129 or higher and ENGL 100 or higher.  
Generally intended for those students majoring in automotive technology and currently employed with an automotive service/repair establishment, this course includes limited laboratory time. The greatest benefit will be realized for those students with the ability to take the course content and apply it in their place of employment. This course covers essential electrical and electronic systems theory, along with inspection, diagnosis, service and repair of specific electrical systems including the battery, starting systems, charging systems, lighting systems, gauges, instrument-panel warning lights and power accessories. This course prepares students for ASE Electrical and Electronic Systems (A6) certification. 54 lecture hours, 54 lab hours.

AUTO 148  
Engine Control Systems  
5 Units  
Grade or P/NP  
Prerequisite: AUTO 101  
Strongly recommended: READ 099 if required by reading placement exam or if by required reading level. Also, MATH 129 or higher and ENGL 100 or higher.  
Generally intended for those students majoring in automotive technology and currently employed with an automotive service/repair establishment. This course includes limited laboratory time. The greatest benefit will be realized for those students with the ability to take the course content and apply it in their place of employment. The course covers essential engine management system theory, along with inspection, diagnosis, service and repair of the following systems: ignition, air and fuel delivery, electronic engine controls, and auxiliary emission controls. This course prepares students for ASE Engine Performance (A8) certification. 72 lecture hours, 54 lab hours. CSU

AUTO 151  
Engine Service, Diagnosis and Repair  
5 Units  
Prerequisite: AUTO 101.  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, MATH 129 or higher and ENGL 100 or higher.  
Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians’ Education Foundation certified course is one component of the Toyota Technical Education Network and ‘Technicians’ Education Cooperative programs. This course covers essential engine theory, inspection, diagnosis, service and repair. Engine disassembly, inspection, measurements and assembly are covered, with emphasis on in-vehicle repairs. The course prepares students for ASE Engine Repair (A1) certification. 54 lecture hours, 135 lab hours.

AUTO 154  
Chassis Service, Diagnosis, and Repair  
8 Units  
Prerequisite: AUTO 101.  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, MATH 129 or higher and ENGL 100 or higher.  
Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians’ Education Foundation certified course is one component of the Toyota Technical Education Network and ‘Technicians’ Education Cooperative programs. The course covers essential chassis system theory, along with inspection, diagnosis, service and repair of the following undercar systems: brake, steering, suspension, alignment, wheel/tire, ride control and ABS. Course prepares students for ASE Suspension and Steering (A4) and ASE Brakes (A5) certification. 108 lecture hours, 135 lab hours.

AUTO 156  
Automotive Electrical & Electronic Systems I  
4 Units  
Grade or P/NP  
Prerequisite: AUTO 101 Or Corequisite AUTO 101.  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, MATH 129 or higher and ENGL 100 or higher.  
Intended for those seeking a career in the automotive service and repair industry, this National Automotive Technicians’ Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians’ Education Cooperative programs. This course covers essential electrical and electronic systems theory, along with inspection, diagnosis, service and repair of specific electrical systems including the battery, starting systems, charging systems, lighting systems, gauges, and instrument-panel warning lights. Prepares students for ASE Electrical & Electronic Systems (A6) certification. 54 lecture hours, 36 lab hours. CSU

AUTO 162  
Drivetrain Service, Diagnosis and Repair  
8 Units  
Prerequisite: AUTO 101.  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, AUTO 154, MATH 129 or higher and ENGL 100 or higher.  
Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians’ Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians’ Education Cooperative programs. This course focuses on the service, diagnosis and repair of the manual and automatic automotive drive train systems. Appropriate lab activities in automobile drive train inspection, service and repair are included. The course prepares students for the ASE Automatic Transmission and Transaxle (A2) and Manual Drive train and Axles (A3) certification exams. 108 lecture hours, 135 lab hours.

AUTO 166  
Automotive Electrical & Electronic Systems II  
3 Units  
Prerequisite: AUTO 156.  
Strongly recommended: READ 099 is required by reading placement exam or if required by reading level. Also, MATH 129 or higher and ENGL 100 or higher.  
Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians’ Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians’ Education Cooperative programs. This course covers advanced electrical and electronic systems theory, along with inspection, diagnosis, service and repair of specific accessory systems including supplemental restraint, navigation, entertainment, power windows/locks/seats, customizable body electronics, hybrid vehicle controls and multiplex systems. This course prepares
students for ASE Electrical and Electronic Systems (A6) certification. 36 lecture hours, 54 lab hours.

AUTO 167
Automotive HVAC Service, Diagnosis & Repair
3 Units
Prerequisite: AUTO 101. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, Auto 156 and MATH 129 or higher and ENGL 100 or higher.
Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians' Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians' Education Cooperative programs. This class covers essential heating, ventilation and air conditioning system theory, along with inspection, diagnosis, service and repair of specific HVAC subsystems including: refrigeration, air distribution and automatic temperature control. This course prepares students for ASE Heating and Air Conditioning (A7) certification. 36 lecture hours, 54 lab hours.

AUTO 168
Engine Control Systems Service, Diagnosis and Repair
8 Units
Prerequisite: AUTO 101. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, AUTO 151 and MATH 129 or higher and ENGL 100 or higher.
Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians' Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians' Education Cooperative programs. The course covers essential engine management systems theory, along with inspection, diagnosis, service and repair of the following systems: ignition, air and fuel delivery, electronic engine controls, and auxiliary emission controls. This course prepares students for ASE Engine Performance (A8) certification. 108 lecture hours, 135 lab hours.

AUTO 190
Introduction to Compressed Natural Gas Vehicles
3 Units
Grade or P/NP Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course introduces students to the role, function, and application of compressed natural gas (CNG) as an alternative fuel for today's internal combustion engine. Propane, methanol, hydrogen, fuel cells and electric vehicles are also discussed. Course prepares students to take the ASE F1 exam. 54 lecture hours.

AUTO 230A
Automotive Service and Repair Work Experience A
1 Unit
P/NP Recommended Skill: AUTO 101, 151, 154, 156, 162, 166, 167, and 168 SLOs.
Strongly recommended: Completion of 16 units in automotive technology coursework. Limitation on Enrollment: Department consent required prior to enrollment.
Automotive technology work experience is designed to extend occupational learning through employment and coordinate the on-the-job training with program instruction. Individual student goals and learning objectives will be designed by the student cooperatively with the employer and faculty adviser. Lab hours are arranged and completed at the place of employment. This AUTO 230A course may be taken four times for a maximum of four units. P/NP grading only. 9 lecture hours, 160 lab hours.

AUTO 230B
Automotive Service and Repair Work Experience B
2 Units
P/NP Recommended Skill: AUTO 101, 151, 154, 156, 162, 166, 167, and 168 SLOs.
Strongly recommended: Completion of 16 units in automotive technology coursework. Limitation on Enrollment: Department consent required prior to enrollment.
Automotive technology work experience is designed to extend occupational learning through employment and coordinate the on-the-job training with program instruction. Individual student goals and learning objectives will be designed by the student cooperatively with the employer and faculty adviser. Lab hours are arranged and completed at the place of employment. This AUTO 230B course may be taken four times for a maximum of four units. P/NP grading only. 9 lecture hours, 320 lab hours.

AUTO 230C
Automotive Service and Repair Work Experience C
3 Units
P/NP Recommended Skill: AUTO 101, 151, 154, 156, 162, 166, 167, and 168 SLOs.
Strongly recommended: Completion of 16 units in automotive technology coursework. Limitation on Enrollment: Department consent required prior to enrollment.

AUTO 230D
Automotive Service and Repair Work Experience D
4 Units
P/NO Recommended Skill: AUTO 101, 151, 154, 156, 162, 166, 167, and 168 SLOs.
Strongly recommended: Completion of 16 units in automotive technology coursework. Limitation on Enrollment: Department consent required prior to enrollment.
Automotive technology work experience is designed to extend occupational learning through employment and coordinate the on-the-job training with program instruction. Individual student goals and learning objectives will be designed by the student cooperatively with the employer and faculty adviser. Lab hours are arranged and completed at the place of employment. This AUTO 230D course may be taken four times for a maximum of four units. P/NP grading only. 9 lecture hours, 640 lab hours.

AUTO 245
Auto Service Management
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, AUTO 100 and AUTO 145.
Course focuses on the management skills required for automotive service managers. Course includes but is not limited to: Compensation plans, importance of customer service, staff organization, evaluations, job descriptions, employee regulations and government agencies, shop planning, equipment, scheduling, and training considerations. 54 lecture hours.

AUTO 260
Engine Design
6 Units
Grade or P/NP Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course designed to teach engine design and analysis of cylinder heads, cylinder blocks, crankshafts, piston and rings, connecting rods, camshaft, valve train systems. The course will also cover the design and tuning of intake and exhaust systems. 6 lecture hours.
systems, turbocharging and supercharging and the use of basic and advanced engine design formulas. 108 lecture hours.

**AUTO 281**  
**Advanced Toyota Certified Technician Training**  
*7 Units*  
**Strongly recommended: Successful completion of evening One Year Certificate or equivalent experience in the automotive field. Also, READ 099 if required by reading placement exam or if required by reading level.**  
An advanced-level course specifically designed to meet the Toyota Certified Technician Program requirements for certification in the following University of Toyota technical training courses: 021, 262, 301, 452, 552, 622, 652, 750, and 852. Only students having completed the one-year evening certificate program or equivalent experience in the automotive field are advised to attend. 126 lecture hours.

**AUTO 285**  
**Digital Storage Oscilloscopes**  
*1 Unit*  
**Prerequisites: AUTO 112 or 120 or 128 and 129 or current licensed smog technician or consent from department.**  
The use and application of Digital Storage Oscilloscopes (DSO) to diagnose input sensors and output actuators. Voltage and waveform analysis of normal and faulty components will be covered. Recommended that students bring their own DSO to class. 18 lecture hours.

**AUTO 290**  
**Introduction to the Automotive Aftermarket**  
*1 Unit*  
**Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.**  
This class is an introduction to the automotive aftermarket industry. It provides an insight into the various specialized segments that make up the industry and explores employment opportunities, specific job requirements, and career paths. 18 lecture hours.

**AUTO 291**  
**Engine Performance Enhancements**  
*3 Units*  
**Strongly recommended: Successful completion of AUTO 112 or 120 or 125, 128 and 129 or consent of department. Also, READ 099 if required by reading placement exam or if required by reading level.**  
This class covers the engine performance enhancements available for automotive vehicles. The subject areas covered include stand-alone engine management systems, fuel systems, turbochargers, superchargers, nitrous oxide, ignition systems, and the use of the chassis dynamometer as a tuning tool. 36 lecture hours, 54 lab hours.

**AUTO 292**  
**Advanced Drive train Development**  
*2 Units*  
**Strongly recommended: Successful completion of AUTO 200 or 202 or 210 or 213 or 214 or 221 or consent from department. Also, READ 099 if required by reading placement exam or if required by reading level.**  
The theory of operation, testing, service, and proper selection of high performance drive train components as well as the modification of domestic and foreign drive train components for use in high performance applications. 18 lecture hours, 54 lab hours.

**AUTO 293**  
**Advanced Steering and Suspension Geometry**  
*2 Units*  
**Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, successful completion of AUTO 114 or 150 or 170 or consent from instructor.**  
The course covers: advanced chassis geometry, ultra high performance tires, aftermarket adjustment procedures on front and rear wheels, selection and installation of alignment kits, performance steering and suspension modifications, weight distribution, and NVH correction. 36 lecture hours, 36 lab hours.

**AUTO 294**  
**Brake Design and Analysis**  
*3 Units*  
**Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, successful completion of AUTO 114 or 150 or 160 or consent from department.**  
This is an advanced course in disc brake design. The course will cover structure, geometry, composition, production, quality, analysis, and testing, of original equipment and aftermarket disc brake systems. 54 lecture hours.

**AUTO 295**  
**Special Projects**  
*2 Units*  
**Grade or P/NP**  
**Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, recommended consent from instructor.**  
This laboratory class is designed to provide hands-on application of skills and techniques acquired in the HPI program series of classes. The HPI program has a number of designated special projects that students will take an active role in planning, preparation, and completion of projects. This course may be taken two times. 108 lab hours.

**AUTO 296**  
**Cylinder Head Development**  
*4 Units*  
**Prerequisite: AUTO 295. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.**  
A course designed to teach the skills necessary to develop a cylinder head for total performance. Emphasis will be placed on cylinder head development and reconditioning, including operation of align-honing, surfacing, boring, and honing machine operation. 54 lecture hours, 54 lab hours.

**AUTO 297**  
**Cylinder Block Development**  
*4 Units*  
**Prerequisite: AUTO 295. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.**  
A course designed to teach the skills necessary to develop and rebuild a cylinder block for total performance. Emphasis will be placed on cylinder block development and reconditioning, including operation of align-honing, surfacing, boring, and honing machine operation. 54 lecture hours, 54 lab hours.

**AUTO 298**  
**Engine Dynamometer Operation**  
*2 Units*  
**Prerequisite: AUTO 295. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.**  
This course covers engine dynamometer operation and testing procedures with evaluation of test results for performance tuning. 18 lecture hours, 54 lab hours.

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**Special Topics Courses**

**AUTO 695A**  
**Special Topics: Automotive Technology**  
*0.5 Units*  
**Grade or P/NP**  
This course covers special and emerging topics not found in other courses within the discipline. Topics vary and are determined by the department for current term emphasis. May be taken four times regardless of the unit combination, however, no single subject, special topics class may be repeated. 9 lecture hours.
This course covers special and emerging topics not found in other courses within the discipline. Topics vary and are determined by the department for current term emphasis. May be taken four times regardless of the unit combination, however, no single subject, special topics class may be repeated. 18 lecture hours.

AUTO 695C
Special Topics: Automotive Technology
2 Units Grade or P/NP
This course covers special and emerging topics not found in other courses within the discipline. Topics vary and are determined by the department for current term emphasis. May be taken four times regardless of the unit combination, however, no single subject, special topics class may be repeated. 36 lab hours.

AUTO 695D
Special Topics: Automotive Technology
3 Units Grade or P/NP
This course covers special and emerging topics not found in other courses within the discipline. Topics vary and are determined by the department for current term emphasis. May be taken four times regardless of the unit combination, however, no single subject, special topics class may be repeated. 54 lab hours.

Biology
(Physical and Natural Sciences Department)

These courses are designed for two different purposes, some for general education and others as introductory level courses required for such professional disciplines as biology, dentistry, forestry, optometry, medicine, registered nursing, veterinary medicine and wildlife management. Students, who intend to transfer as biology majors, or in majors closely related to biology, are advised to consult with a Citrus College counselor.

Biology Courses
(See Also Natural History)

BIOL 100
Introductory Biology
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A preparatory biology course which serves as an introduction to scientific method, cell structure and function, cell division, genetics, energy relationships, nutrient processing and usage, biological diversity and environmental relationships. 54 lecture hours.

BIOL 102
Human Genetics
3 Units
Strongly recommended: MATH 130. Also, READ 099 if required by reading placement exam or if required by reading level.
General principles of genetics and reproduction in wellness and disease as applied in humans. Topics include Mendelian inheritance, extensions and exceptions to Mendelian inheritance, multifactorial traits, DNA structure, function, and replication, cell division, population genetics, evolution, immunity, cancer, and genetic technologies. 54 lecture hours. CSU;UC

BIOL 104
Biology: Contemporary Topics
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A general biology lecture course for non-majors which will cover basic life processes and address contemporary issues in biology. Biological principles covered will include chemical foundations of biology, cell structure and function, cell reproduction, and genetics. Contemporary issues may include such areas as public health, biotechnology, and environmental science. 54 lecture hours. CSU;UC

BIOL 105
General Biology
4 Units
Strongly recommended: MATH 130, high school biology, or chemistry. Also, READ 099 if required by reading placement exam or if required by reading level.
A general biology course, lecture and laboratory, for non-majors, with emphasis upon molecular biology, cell structure and function, energy relationships, nutrient processing, reproduction and development, genetics and evolution, ecological interrelationships, and discussion of contemporary issues. The laboratory provides the student with expanded first-hand experience in specific areas of course content. 54 lecture hours, 54 lab hours. CSU;UC

BIOL 109
Biology for Educators
4 Units
Prerequisite: CHEM 106 or PHYS 106 and MATH 150. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course provides each prospective multiple-subject teacher with an introductory survey of the fundamental concepts of biology and the interrelationships among living organisms. Emphasis is placed upon the chemical basis of life, the role of cells in the formation of complex organisms, the relationship between structure and function in complex organisms like plants and animals, the role that genetics plays in the evolution of life, and the relationship between living organisms and the physical world around them. This course is recommended for students plan-
BIOL 100
Human Anatomy
4 Units
Prerequisite: BIOL 105.
A course covering human anatomy focusing on the structures and organs of the human body. Students will be required to learn and understand the structures from the molecular to gross levels, using the microscope, standard anatomical (plastic) models, and preserved specimens (sheep heart, sheep brain, and cat). Required of pre-nursing students. 54 lecture hours, 54 lab hours. CSU;UC

BIOL 201
Physiology
4 Units
Prerequisite: BIOL 200 and CHEM 103. An advanced course in human physiology emphasizing muscle, nerve, circulation, respiration, excretion, digestion, and reproduction systems. Required of pre-nursing students. 54 lecture hours, 54 lab hours. CSU;UC

BIOL 210
Nutrition
3 Units
Corequisite: Concurrent enrollment required in CHEM 103, 110 or BIOL 124. A course in nutrition concerned with its principles and their use in the selection of food in clinical situations. Designed for allied medical and child development students. 54 lecture hours. CSU;UC

BIOL 220
Microbiology
5 Units
Prerequisite: CHEM 103 or 110 and BIOL 104 or 105. An introduction to the biology of microorganisms including bacteria, viruses, fungi, and protozoa. Metabolism, genetics, culture methods, identification, and control of common microbes are considered. Emphasis is placed on the virulence mechanisms and control of human pathogens and on the principles of immunology and host defense. Laboratory work includes techniques common to the control, culture, and identification of microbes. Required of pre-nursing students and medical technologists. 54 lecture hours, 108 lab hours. CSU;UC

Cooperative Education Courses

BIOL 698A
Cooperative Education
1 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Biology at their place of volunteer employment or training sites. This course may be taken four times. 60 lab hours arranged per semester.

BIOL 698B
Cooperative Education
2 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Biology at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

BIOL 698C
Cooperative Education
3 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Biology at their place of volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

BIOL 698D
Cooperative Education
4 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Biology at their place of volunteer employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Biology at their place of paid employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

BUS 130
Introduction to Business
3 Units
This is a foundation course in business administration. It is recommended for all students planning further study in this field. Lecture, discussion, and problems involve such topics as business finance, personnel, production, distribution, government regulations, and managerial controls. 54 lecture hours. CSU; UC

BUS 132
Ethics in Business
3 Units
This course emphasizes development of managerial decision-making skills utilizing ethical business standards for improvement of business organizations, communities, government, and international trade. 54 lecture hours. CSU

BUS 140
International Business
3 Units
A comprehensive overview of international business for beginning and experienced business people with a global perspective on international trade including foreign investments, impact of financial markets, international marketing, and the operation of multi-national corporations. 54 lecture hours. CSU

BUS 146
Personal Finance
3 Units
This course introduces basic concepts of personal finance. Topics include managing personal assets, investing in various financial instruments, analyzing various aspects of insurance, planning for retirement, and budgeting household expenditures. Credit card debt, home financing, and buying/leasing vehicles will be discussed along with personal income tax issues.

BUS 150
Business English
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An introductory course in business writing, which includes a common-sense approach to the use of English grammar, punctuation and style in the business context, and strategies for effective writing of business-related communications. Recommended for business majors. 54 lecture hours. CSU

BUS 152
Business Communications
3 Units
Grade or P/NP
Strongly recommended: BUS 150. Also, READ 099 if required by reading placement exam or if required by reading level.
A study of principles and strategies for developing effective written and oral communication skills for use in the workplace and in business. Several types of written and oral forms of business communication are highlighted. Recommended for business majors. 54 lecture hours. CSU

BUS 160
Business Law and the Legal Environment I
3 Units
Grade or P/NP
A study of law, with an emphasis on the law's relationship to business. Topics covered include the legal environment of business, court procedures, jurisdiction, torts and crimes in the business environment, intellectual property, principles of contract law, commercial transactions, and ethical business practices. 54 lecture hours. CSU; UC

BUS 161
Business Law and the Legal Environment II
3 Units
Grade or P/NP
A study of law, with an emphasis on the law's relationship to business. Topics covered include agency, employment law, consumer law, environmental law, sole proprietorships, franchises, partnerships, corporations, insurance, real and personal property, landlord-tenant law, wills and trusts, elder law, creditors' rights and remedies, secured transactions, bankruptcy law, negotiable instruments, anti-trust law, professional liability, and international law. 54 lecture hours. CSU; UC

BUS 170
Small Business Management
3 Units
Grade or P/NP
The study of business organization emphasizing the small independently owned
BUS 172 Personnel Management 3 Units
The study of personnel management emphasizing employer/employee relationships, communications, employee selection, job analysis and description, job motivation and productivity, employee benefits, principles of collective bargaining, labor relations, O.S.H.A., and affirmative action. 54 lecture hours. CSU

BUS 175 Introduction to Management 3 Units Grade or P/NP
A course focusing on communication, decision making, and leadership for administrative and managerial positions in business, government, the professions, and the volunteer sector. 54 lecture hours. CSU

BUS 176 Management for the Office Professional 3 Units Grade or P/NP
An overview of office management for administrative professionals. Topics include: concepts and trends in administrative office management, centralizing/decentralizing managerial authority, communication in the office, managing a culturally diverse workplace, managing the ergonomic office environment, automating the office, managing office information systems, and improving office productivity. 54 lecture hours. CSU

BUS 185 Elements of Marketing 3 Units
A course focusing on the moving of goods, services, and ideas from producer to consumer. Topics include: functions and institutions of marketing; marketing research and customer motivation; buying, selling, pricing and competition; transportation, storage and packaging; banking, communication, and insurance. 54 lecture hours. CSU

BUS 192 Advertising 3 Units Grade or P/NP
A study of media advertising, including magazine, television, radio, newspaper, and direct mail; the purpose and cycles of advertising; laws affecting advertising; and economic effects of advertising. 54 lecture hours. CSU

BUS 246 Personal Investments 3 Units Grade or P/NP
This course provides a comprehensive study of stocks, bonds, and related securities which includes a detailed study of the nature of these securities and their markets. Emphasis is placed on personal investment objectives for growth, growth with income and income with preservation of capital. Also covered is the topic of taxes and their effect on investment policy. 54 lecture hours. CSU

Cooperative Education Courses

BUS 698A Cooperative Education 1 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Business at their place of volunteer employment or training sites. This course may be taken four times. 60 hours lab arranged by semester.

BUS 698B Cooperative Education 2 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Business at their place of volunteer employment or training sites. This course may be taken four times. 120 hours lab arranged by semester.

BUS 698C Cooperative Education 3 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Business at their place of volunteer employment or training sites. This course may be taken four times. 180 hours lab arranged per semester.

BUS 698D Cooperative Education 4 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Business at their place of volunteer employment or training sites. This course may be taken four times. 240 hours lab arranged per semester.

BUS 699A Cooperative Education 1 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Business at their place of paid employment or training sites. This course may be taken four times. 75 hours lab arranged per semester.

BUS 699B Cooperative Education 2 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Business at their place of paid employment or training sites. This course may be taken four times. 150 hours lab arranged per semester.

BUS 699C Cooperative Education 3 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Business at their place of paid employment or training sites. This course may be taken four times. 225 hours lab arranged per semester.
BUS 699D
Cooperative Education
4 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Business at their place of paid employment or training sites. This course may be taken four times. 300 hours lab arranged per semester.

Chemistry
(Physical and Natural Sciences Department)
The two-year program in chemistry provides the student with a broad background in inorganic and organic chemistry and quantitative analysis. Other majors requiring chemistry include engineering (CHEM 111, 112); nursing (CHEM 103, 104); pre-medicine, pre-dentistry, pre-pharmacy, pre-veterinary science, chiropractic (CHEM 111, 112, 210, 211, 220, 221L).

Chemistry Courses
CHEM 103
College Chemistry
5 Units
Grade or P/NP
Prerequisite: Completion of MATH 130 with min. grade of C.
The first semester of a year program includes chemistry of inorganic compounds; covers topics of nomenclature, stoichiometry, bonding, chemical equations, gas laws, solutions, acids and bases, nuclear processes and chemical equilibrium. Required for students transferring to four-year college nursing programs and students majoring in physical therapy, occupational therapy, and home economics. 72 lecture hours, 72 lab hours. CSU;UC

CHEM 104
College Chemistry
5 Units
Grade or P/NP
Prerequisite: CHEM 103 or 110.
The second semester of a year program includes chemistry of organic compounds; covers topics in biochemistry including carbohydrates, fats, proteins, metabolism, nucleic acids, and nutrition. Required for students transferring to four-year college nursing programs and students majoring in physical therapy, occupational therapy and home economics. 72 lecture hours, 72 lab hours. CSU;UC

CHEM 106
Chemistry and Physics for Educators
4 Units
Prerequisite: MATH 130.
Corequisite: MATH 150.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course provides each prospective multiple subject teacher with an introductory survey of the fundamental concepts of chemistry and physics and the interrelationships among these disciplines. Emphasis is placed on the ways in which chemistry and physics affect everyday life and the role of these disciplines in addressing issues and problems related to energy and the environment. This course is recommended for students planning to take the CSET Multiple Subject Exam to become credentialed elementary school teachers in the State of California. This is the same as PHYS 106. 54 lecture hours, 54 lab hours. CSU

CHEM 110
Beginning General Chemistry
5 Units
Grade or P/NP
Prerequisite: Completion of MATH 150 with minimum grade of C or concurrent enrollment.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An introductory course in the fundamental principles of chemistry. Topics covered are those necessary for understanding chemical structure and reactivity, and for scientific calculations. There is an emphasis on laboratory work and communication skills. The course is designed for science and engineering majors, pre-medical students, and as a general education class. 54 lecture hours, 126 lab hours. CSU;UC

CHEM 111
General Chemistry
5 Units
Grade or P/NP
Prerequisite: MATH 150. Passing score on Chemistry Placement Test or CHEM 110.
A general course in the fundamental principles of chemistry. Topics covered include periodicity, stoichiometry, nomenclature, atomic structure, bonding, chemical calculations, thermodynamics, intermolecular forces, gases and organic chemistry. The course is designed for all science and engineering majors and pre-medical students. 54 lecture hours, 126 lab hours. CSU;UC

CHEM 112
General Chemistry
5 Units
Grade or P/NP
Prerequisite: CHEM 111.
A general course in the fundamental practice of chemistry. Chemistry 112 is a continuation of Chemistry 111 and includes topics of equilibrium, kinetics, acid-base chemistry, electrochemistry, nuclear processes, coordinator chemistry and thermodynamics. 54 lecture hours, 126 lab hours.* CSU;UC

CHEM 210
Organic Chemistry
3 Units
Prerequisite: CHEM 112.
A course in organic chemistry including the properties and reactions of alkanes, alkenes, alkynes, alcohols, ethers, thiols, emphasizing fundamental principles and reaction mechanism, stereochemistry and IR spectroscopy. First semester of a one-year course, required for students enrolled in pre-professional programs in medicine, dentistry, pharmacy, veterinary science, biology, and chemistry. CHEM 211L required concurrently for most stated majors. 54 lecture hours. CSU;UC

CHEM 211L
Organic Chemistry Lab
1 Unit
Prerequisite: Completion of, or concurrent enrollment in CHEM 210.
Introduction to organic laboratory techniques such as melting point, crystallization, distillation, thin layer chromatography, extraction, synthesis of an ether and an alkene. 54 lab hours. CSU;UC

CHEM 220
Organic Chemistry
3 Units
Prerequisite: CHEM 210.
A course in organic chemistry including the properties and reactions of aromatic compounds, aldehydes, ketones, carboxylic acid derivatives, enols, enolates, amines, and selected topics in biochemistry, NMR, and mass spectrometry. Second semester course required for students in pre-professional programs in medicine, dentistry, pharmacy, veterinary science, biology, and chemistry. CHEM 221L is required concurrently for most of the stated majors. 54 lecture hours. CSU;UC

CHEM 221L
Organic Chemistry Lab
1 Unit
Corequisite: Concurrent enrollment required in CHEM 220.
Synthesis of selected organic compounds, including multi-step processes, techniques of column chromatography, IR spectroscopy. 54 lab hours. CSU;UC

Cooperative Education Courses
CHEM 698A
Cooperative Education
1 Unit
Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the Summer the students must be enrolled in at least one other class.
A course designed to assist students in
CHEM 699A
Cooperative Education
1 Unit Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the Summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Chemistry at their place of paid employment or training sites. This course may be taken four times. 60 lab hours arranged per semester.

CHEM 699B
Cooperative Education
2 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the Summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Chemistry at their place of paid employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

CHEM 699C
Cooperative Education
3 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the Summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Chemistry at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

CHEM 699D
Cooperative Education
4 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the Summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Chemistry at their place of paid employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

CHEM 699B
Cooperative Education
2 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the Summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Chemistry at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.

CHIN 102
Chinese II
5 Units Grade or P/NP
Prerequisite: CHIN 101
Chinese 102 continues to present the fundamentals of Chinese grammar. Students are further trained to pronounce Mandarin correctly, to build their conversational and written vocabulary, and to read and write approximately 300 more Chinese characters. 90 lecture hours, 18 lab hours. CSU; UC

Child Development
(Behavioral Sciences Department)

The Child Development Program is designed for students planning careers working with children ages 0-18 in a multitude of professions including early childhood education, childcare settings, and teaching in public or private schools.

Child Development Courses

CHLD 100
Introduction to Education and Teaching
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course is an introductory course for students wishing to explore the teaching profession in the K-12 setting. Topics include an introduction to teacher performance expectations and California Standards for the teaching profession. Other topics include pedagogical strategies, curriculum design, California subject matter standards, use of technology in today’s classroom and the importance of current issues and legislation. In addition, students will be required to observe 45 hours in K-12 classrooms. 54 lecture hours. CSU

CHLD 106
Parenting Your Preschool Child VI
0.5 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course will be taught through practical experience and a series of discussions. A variety of topics will be covered including health, nutrition, sex education, discipline, self-esteem, reading and literacy, library use, media evaluation, hospitalization and illness, divorce and separation, death, parents as teachers, play techniques, and community resources. This course may be taken four times. 9 lecture hours.

Chinese Courses
(Foreign Languages Department)

CHIN 101
Chinese I
5 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course in elementary Chinese (Mandarin) grammar, vocabulary and pronunciation which aims at understanding, speaking, reading and writing simple Chinese and serves as an introduction to Chinese geography and culture. 90 lecture hours, 18 lab hours. CSU; UC
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHLD 108</td>
<td>Partnership Parenting</td>
<td>1.5</td>
<td>An in-service training series for foster parents. Mandated for newly licensed foster parents by Los Angeles County Department of Children and Family Services. 27 lecture hours.</td>
</tr>
<tr>
<td>CHLD 109</td>
<td>Introduction to Early Childhood Education</td>
<td>3</td>
<td>This is an introductory course for exploring the philosophy, education, care and careers in early childhood education. It includes an overview of the developmental stages of children and major theories of development and their application. This course will study the emotional/psychological, cognitive, and physical development of children. It also includes a study of the influence of heredity and environmental factors such as parenting practices and education will be studied in this course. 54 lecture hours.</td>
</tr>
<tr>
<td>CHLD 110</td>
<td>Early Childhood Development</td>
<td>3</td>
<td>Grade or P/NP Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Students will critically examine theories of child development in the physical, intellectual and social-emotional areas as they pertain to the various ages and stages in a child's life from prenatal development through early childhood. Practices in teaching that derive from theories and diverse cultural environments will be analyzed and evaluated in light of an understanding of the whole child at different developmental stages. Students will learn to observe and assess children's development and gain insight and appreciation of cultural differences through directed observations. 54 lecture hours. CSU</td>
</tr>
<tr>
<td>CHLD 111</td>
<td>Child Development Youth - Adolescence</td>
<td>3</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. This course examines the history and philosophy of child development from middle childhood through adolescence (8-18 years). This includes a survey of parenting and educational practices as well as examining the responsibilities of teaching and caring for this age group. 54 lecture hours. CSU/UC</td>
</tr>
<tr>
<td>CHLD 112</td>
<td>Principles of Early Childhood Education 1</td>
<td>3</td>
<td>Grade or P/NP Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. This course is designed to introduce students to philosophies of early childhood education and to their actualization in design of environment and program. Observation and analysis of the elements that make up a developmentally appropriate program for young children will be required. The student will learn how to assess and meet individual children's developmental needs, create an environment that supports the diversity of cultures, and communicate with parents/caregivers in ways that facilitate partnership in their child's education. 54 lecture hours.</td>
</tr>
<tr>
<td>CHLD 114</td>
<td>Home-Child-Community Relations</td>
<td>3</td>
<td>Grade or P/NP Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. A study of home, child, school and community relationships as they pertain to the historical and contemporary perspectives on the education and socialization of children. Includes an examination of community resources and the influences of age, gender, diverse abilities, culture, socioeconomic status and public policy factors that affect children and families. 54 lecture hours. CSU</td>
</tr>
<tr>
<td>CHLD 116</td>
<td>Introduction to Curriculum</td>
<td>3</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. This course will present an overview of knowledge and skills related to providing developmentally appropriate curriculum and environments for young children from birth through age six. Examination of the teacher's role in supporting learning and developing in young children with an emphasis on the essential role of play. Students will study the overview of content areas including language and literacy, social and emotional learning, sensory learning, creative arts, math and science. 54 lecture hours. CSU</td>
</tr>
<tr>
<td>CHLD 118</td>
<td>Effective Family Child Care Practices</td>
<td>2</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. This course introduces students to strategies that will help them to create and operate a family day care business. The course will cover issues dealing with licensing and business practices as well as techniques to promote parent-caregiver relationships. Students will also evaluate family day care environments and curriculum. 36 lecture hours.</td>
</tr>
<tr>
<td>CHLD 120</td>
<td>Literacy for Children</td>
<td>3</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Students will explore techniques for developing literacy skills in the preschool and early school-age child. Discussion and planning of developmentally appropriate curriculum that supports children's listening, speaking, reading and writing skills. Students will survey children's books and learn techniques to enhance literacy development. A complete language arts program that includes storytelling, puppetry and other relevant literacy experiences will be explored. 54 lecture hours.</td>
</tr>
<tr>
<td>CHLD 121</td>
<td>Art for Children</td>
<td>2</td>
<td>Grade or P/NP Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Designed to provide the student with opportunities to experience personally and evaluate art and crafts materials used with the preschool and early school-age child to discover the development of creativity in themselves and in children. The student will design developmentally appropriate art curriculum and explore ways to support creative thinking and experiences for children. Students will gain appreciation for art within diverse cultures and society at large. 36 lecture hours.</td>
</tr>
<tr>
<td>CHLD 122</td>
<td>Music and Rhythms for Children</td>
<td>2</td>
<td>Grade or P/NP Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. This course will provide the student with basic skills and techniques for using musical instruments, recordings and songs and development of rhythmic movement activities to use with preschool and early school-age children. Discussion and planning of developmentally appropriate curriculum that supports children's music and movement needs. Previous music experience not required. 36 lecture hours.</td>
</tr>
</tbody>
</table>
| CHLD 123    | Science Experiences for Children                     | 1     | Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. This course focuses on planning and implementing science experiences with pre-
discuss and planning of developmentally appropriate curriculum that supports children's understanding of life, earth and physical science concepts. Exposure to formal, informal and incidental science activities and direct use of science materials. Analysis of the teacher's role in incorporating science concepts within the total program for children. 18 lecture hours.

CHLD 124
Mathematics for Children
1 Unit
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
The student will gain knowledge of practical mathematics activities to use with preschool and early-school age children. Planning of developmentally appropriate math curriculum activities. Analysis of relevant theories of child development. Designed to provide the student with opportunities to experience directly and evaluate mathematical materials. 18 lecture hours.

CHLD 130
Infant Development and Group Care
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course focuses on the development of the infant and on the dynamics of infant group care. Methods of providing care designed for physical, emotional, social, and intellectual development will be stressed. The health and safety requirements of the state and county are included. 54 lecture hours. CSU

CHLD 134
Parent-Child Interaction
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course explores dynamics of parent-child relationships. Students will analyze the process of being a parent, considering both internal and external forces that have influence. A focus on children from birth to adolescence will include understanding developmental needs. A problem solving approach to the parent-child interaction will be examined to promote positive relationships within a harmonious family atmosphere. 54 lecture hours. CSU

CHLD 140
Before/After-School Programs
3 Units
Prerequisite: Completion of CHLD 111.
An overview of quality school-age childcare programs based on good child development principles and practices. This course includes community resources, environment, staffing, activities, homework assistance, discipline and relationships. This class meets the Title XII licensing requirements for personnel in school-age programs. 54 lecture hours.

CHLD 142
Parent Teacher Partnership
1 Unit
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course will focus on planning and implementing educational programs that supports successful parent-teacher partnerships. Analyses of family patterns, parent involvement, teaching techniques, and policy. Barriers to good parent-teacher relationships are analyzed and solutions generated. Emphasis is placed on building partnerships within the preschool and early-school age classroom. 18 lecture hours.

CHLD 144
Health, Safety and Nutrition for Young Children
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course provides an overview of health, safety and nutrition issues, policies, and procedures and focuses on the development of health, safety and nutrition curricular materials. 54 lecture hours. CSU

CHLD 145
Child Abuse Education
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course is a comprehensive overview of the research in the area of child abuse including physical, emotional, sexual abuse and neglect. The causes and effects of child maltreatment will be suited. Prevention and support services, treatment modalities, and crisis intervention will be explored. 54 lecture hours.

CHLD 147
Computers in Early Childhood Programs
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Students will be introduced to computer use in Early Childhood Programs. Hardware requirements will be reviewed and students will have an opportunity to use and evaluate a database program designed for Early Childhood Programs. 54 lecture hours.

CHLD 150
Multi-Culture Anti-Bias Classroom
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course is designed to assist students in becoming more effective teachers of individuals from backgrounds other than their own. Included is an examination of concepts of culture, ethnicity, gender, sex, prejudice and discrimination and an analysis of the appropriateness of current educational theories relating to a diverse society. Emphasis will be given to increasing understanding of subcultures based on race, ethnicity, age, religion, gender, language, family background and income. The development of bias free curriculum models, methods and philosophies will be examined. 54 lecture hours. CSU

CHLD 154
Observing and Recording Behavior
3 Units
Prerequisites: CHLD 110 or CHLD 111 or PSY 206 and CHLD 112 and CHLD 114.
This course will focus on principles of observation, collection, organization, and uses of data. Observation as the basis for evaluation of children's skills and the formulation of lesson plans will be the basis of field work assignments. Students will practice a variety of techniques in a variety of different settings. Students will organize data gathered for use in lesson planning and parent conferencing. 54 lecture hours.

CHLD 156
Practicum A in Early Childhood Education
2 Units
Prerequisites: CHLD 110 or PSY 206 and CHLD 112, 114, 154, and 9 units from the following: CHLD 120, 121, 122, 123, 124, 134, 142, 144, 150, 160, 164.
This course is designed to provide the student with opportunities to identify, develop, and implement appropriate activities which support the total growth of the whole child. Emphasis is placed on teacher planning and implementation of curriculum, environment design, documentation of children's learning, and parent involvement. Advocacy for children and families in social policy and critical evaluation of early childhood programs/philosophies will be examined. 18 lecture hours, 54 hours field work.
The motor development curriculum. The student will have the opportunity for application of acquired knowledge and teaching skills directly in the early childhood classroom. The students will gain experience teaching activities to children and developing a professional attitude. 54 lab hours.

**CHLD 158L Practicum B Lab**
1 Unit

Corequisite: CHLD 158.
The course offers the student actual experience in planning, presenting, and evaluating lessons in the preschool environment. The lecture will be devoted to techniques to enhance effectiveness in the classroom setting and a discussion of the laboratory experience. The course offers the student actual experience. 36 lecture hours. CSU

**CHLD 158 Practicum B in Early Childhood Education**
2 Units
Prerequisites: Twelve units of CHLD including CHLD 112 and six units from the following: CHLD 120, 121, 122, 123, 124, 125, 126, 127, or 128.
The course offers the student actual experience in planning, presenting, and evaluating lessons in the preschool environment. The lecture will be devoted to techniques to enhance effectiveness in the classroom setting and a discussion of the laboratory experience. The course offers the student actual experience. 36 lecture hours. CSU

**CHLD 160 Perceptual Motor and Movement**
2 Units

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course will focus on evaluation of motor skills, planning and implementation of perceptual motor and movement activities appropriate for normal and motor-delayed young children. Emphasis will be placed on the role of the physical and psychomotor domain in the total development of the young child. Developmental motor activities will be examined that aid children in acquiring movement abilities and fitness, as well as social interaction and cognitive development. Participants will develop movement experiences for use in the classroom and in the planning of a motor development curriculum. 36 lecture hours.

**CHLD 164 The Child with Special Needs**
3 Units

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A presentation of different types of atypical development that interfere with normal physical, cognitive, social, behavioral and emotional growth from preschool through early school-age children. 54 lecture hours. CSU

**CHLD 166 Speech and Language Development and Disorders**
2 Units

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course will cover children's acquisition of speech and language skills from birth to age five. Emphasis will be on normal language, articulation, fluency, and voice development. Included will be children's language learning strategies, adult teaching strategies, language and cultural differences, and an overview of communication disorders, as well as appropriate referral to a professional. 36 lecture hours. CSU

**CHLD 168 Development Risk: Infants and Toddlers**
2 Units

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This class introduces the student to early intervention strategies that are positive and cost-effective for use with children who are developmentally delayed or at risk for developmental delay. Information on Public Law 99-457 is included. Specific strategies for language intervention and child abuse reporting are also included. This class is appropriate for all professionals and paraprofessionals working with young children. 36 lecture hours.

**CHLD 169 Managing Disruptive Behavior**
1 Unit

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course provides an overview of challenging and disruptive behaviors in preschoolers. Topics of study include attention deficit disorder, aggression, and other related topics. Students will analyze behavioral issues and explore strategies for classroom management. Students will develop guidance techniques for modifying inappropriate behaviors. 18 lecture hours.

**CHLD 181 Infant and Toddler Caregiver: Relationships**
1 Unit

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This is one of four one-unit classes in Infant and Toddler Care giving based on the Responsive Care giving approach. Students in this class will examine the impact of teacher/parent relationships on the quality of Infant and Toddler Care giving and review and evaluate techniques for supporting families. This class partially meets the licensing requirement for 3 units in infant and toddler care and development. 18 lecture hours.

**CHLD 182 Infant and Toddler Caregiver: Socialization and Emotional Development**
1 Unit

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This is one of four one-unit classes in Infant and Toddler Care giving based on the Responsive Care giving approach. Students in this class will study infant and toddler temperaments, stages of social and emotional development, appropriate guidance, and responsive curriculum for group care. This class partially meets the licensing requirement for 3 units in infant and toddler care and development. 18 lecture hours.

**CHLD 183 Infant and Toddler Caregiver: Learning and Development**
1 Unit

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This is one of four one-unit classes in Infant and Toddler Care giving based on the Responsive Care giving approach. Students in this class will learn to recognize cues and to follow the child’s interest in order to facilitate the infant’s discoveries and learning. Students will learn to base the curriculum on the child's interest and readiness. This class partially meets the licensing requirement for 3 units in infant and toddler care and development. 18 lecture hours.

**CHLD 184 Infant and Toddler Caregiver: Environments and Routines**
1 Unit

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This is one of four one-unit classes in Infant and Toddler Care giving based on the Responsive Care giving approach. Students in this class will learn to set up a
safe, intimate, and interesting environment for infants and toddlers. They will also learn the techniques of responsive care giving in daily routines. This class partially meets the licensing requirement for 3 units in infant and toddler care and development. 18 lecture hours.

CHLD 190
Administration of Early Childhood Education Programs I
3 Units
Prerequisites: CHLD 110 or 111 or PSY 206 and CHLD 112 and 114.
Introduction to the basic principles of administration of early childhood education programs. Includes specific topics of curriculum development and evaluation; staff selection, supervision and evaluation; laws and regulations; site development and supervision; budgeting and fiscal management; parent education; health and safety supervision; time management and problem solving techniques. This class meets state requirements for supervision of Title XXII preschool programs. 54 lecture hours.

CHLD 191
Administration of Early Childhood Education Programs II
3 Units
Prerequisite: Eighteen units of early childhood education, CHLD 190.
Recommended: One year teaching experience.
Introduction to the policies and procedures specific to state funded programs. Includes Title V regulations, evaluation of programs utilizing the state mandated Program Quality Review, development of proposals and grant requests for state or other funding, process of promulgating regulations, affecting proposed regulations, staff development and training, development of program policies. 54 lecture hours.

CHLD 194
Personnel Issues in Early Childhood Education Programs
3 Units
Prerequisite: Completion of CHLD 190 with min. grade of C.
This course addresses those personnel issues most often encountered by administrators of Early Childhood Education programs including: policies and procedures for selection and supervision of staff; pre-service and in-service education; leadership and motivation; team building; conflict resolution; supervision and evaluation. 54 lecture hours.

CHLD 220
Early Childhood Education Mentor Teacher Practices
3 Units
Prerequisite: Master Teacher Permit and two years teaching experience.
A study of the methods and principles of supervising student teachers in early childhood classrooms. Emphasis is on the role of experienced classroom teachers who function as mentors to new teachers while simultaneously addressing the needs of children, parents and other staff. Upon completion of this class students may be eligible to apply to participate in the Early Childhood Mentor Teacher Program. 54 lecture hours.

CHLD 698A
Cooperative Education
1 Unit
Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Child Development at their place of volunteer employment or training sites. This course may be taken four times. 60 lab hours arranged per semester.

CHLD 698B
Cooperative Education
2 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Child Development at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

CHLD 698C
Cooperative Education
3 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Child Development at their place of volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

CHLD 698D
Cooperative Education
4 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Child Development at their place of volunteer employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

CHLD 699A
Cooperative Education
1 Unit
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Child Development at their place of paid employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

CHLD 699B
Cooperative Education
2 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Child Development at their place of paid employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.

CHLD 699C
Cooperative Education
3 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Child Development at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.
CHLD 699D
Cooperative Education
4 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semes-
ter. At least one of the seven units must be a Child Development class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Child Devel-
opment at their place of paid employment or training sites. This course may be taken four times. 300 lab hours arranged per se-
mester.

College Preparation
(Language Arts Department)
The College Preparation program utilizes a variety of courses to enhance the basic skills of students while enabling them to
prepare for the rigor of college-level courses.

College Preparation Courses
COLL 033
Sentence Skills
3 Units
This course focuses intensively on the de-
velopment of sentences. Practice is pro-
vided in skillful writing of clear sentences
as forms of written expression. 54 hours
lecture.

Communications
(Language Arts Department)
The communications program includes in-
struction and laboratory experiences in
mass media and journalism. The program
includes an overview of mass media; courses in reporting, writing, editing, and
designing for publications; introductions to
broadcasting and public relations; instruc-
tion in desktop publishing; and film stud-
ies. The curriculum features both theory and
application through traditional and on-
line instructional delivery systems.

Communications Courses
COMM 100
Mass Media and Society
3 Units
Grade or P/NP
Strongly recommended: READ 099 if
required by reading placement exam
or if required by reading level.
A survey and evaluation of mass media in
economic, historical, political, psychologi-
cal, and sociological terms. Focuses on
helping the media consumer understand
the power and significance of mass com-
munications: books, newspapers, maga-
zines, radio, television, motion pictures,
the Internet, public relations, and adver-
tising. Discusses the rights and responsi-
bilities and interrelatedness of media in a
diverse global society. Required for all
communications and journalism majors;
also a general interest course. 54 lecture
hours. CSU

COMM 101
Reporting and Writing News
3 Units
Grade or P/NP
Strongly recommended: READ 099 if
required by reading placement exam
or if required by reading level.
An introduction to defining, gathering, and
writing the news. Stresses accuracy, ob-
jectivity, fairness, and balance. Practice in
interviewing techniques, following rules of
professional style, and writing basic news
story structures. Discussion of issues in-
volving press rights and responsibilities,
cultural sensitivity, taste, libel, and ethics.
Required of all communication and jour-
nalism majors. 54 lecture hours, 18 lab
hours. CSU

COMM 103
Freelance Journalism
1 Unit
Strongly recommended: READ 099 if
required by reading placement exam
or if required by reading level. Also,
ENG 100.
This course is designed to accommodate
students who want to contribute to the
campus newspaper, magazines and/or stu-
dent publications websites but are unable
to enroll in regular staff classes. Students
who are interested in advertising, writing,
photography, art, graphics and/or page
design may participate in students publi-
cations to a limited extent through this
class. Freelance Journalism may be re-
peated four times. 54 lab hours. CSU

COMM 104
Public Relations
3 Units
Grade or P/NP
A survey of public relations history, theo-
ries and practices with emphasis on appli-
cations to business, public agencies and
institutions. A practical approach to using
the media, creating publicity releases, or-
ganizing and executing campaigns. Ex-
plores job opportunities of particular inter-
est to communications majors. 54 lec-
ture hours. CSU

COMM 136
Cultural History of American Films
3 Units
Grade or P/NP
Strongly recommended: READ 099 if
required by reading placement exam
or if required by reading level.
In considering the history of American
commercial motion picture culture from its origins to the present, students will study
film language, the social composition of
audiences, the economics of the film in-
dustry, major themes and genres that
have appeared in American films, and the
relationship between politics and American
motion pictures. 54 lecture hours. CSU;UC

COMM 200
Visual Communications
3 Units
Grade or P/NP
Strongly recommended: READ 099 if
required by reading placement exam
or if required by reading level.
An introduction to the history of film and
television as visual mass media. Analysis
of seminal films and television programs
with emphasis on their evolution as enter-
tainment media and their impact on soci-
ety. 54 lecture hours. CSU;UC

COMM 202
Writing Broadcast News
3 Units
Grade or P/NP
Prerequisite: COMM 101.
Intensive journalistic writing and reporting
for radio and television. Newscast plan-
ning, story organization, and functions of
a broadcast newsroom will be explored.
Emphasis on writing assignments for both
audio and video media. Lecture/discussion
of issues and responsibilities facing broad-
cast journalists, including developing news
decisions, discussing ethical considera-
tions and examining legal issues. 54 lec-
ture hours, 18 lab hours. CSU

COMM 230
Desktop Publishing
3 Units
Grade or P/NP
Strongly recommended: COMM 101.
Computer instruction and practice. Anal-
ysis of story structures and effectiveness
of written material, rewriting, correction of
errors, proofreading, headline writing,
news and picture evaluation, and page de-
sign. Hands-on experience working on
student publications with the college
newspaper and magazine staffs. This
course may be taken four times. 36 lec-
ture hours, 54 lab hours. CSU

COMM 240
Newspaper Production Staff
3 Units
Strongly recommended: COMM 101.
Staff members gather, evaluate, write,
photograph, and edit the news for publica-
tion in the student media. Working with
the editorial board and desktop publishing
classes as a production team, the staff
plans, budgets, and designs each issue.
This course may be taken four times. 36
lecture hours, 54 lab hours. CSU

COMM 245
Editorial Board Workshop
2 Units
Strongly recommended: COMM 101.
A study of the major aspects of editorial
responsibilities. Taught in a laboratory set-
Cosmetology (Cosmetology Department)

Upon successful completion of 1600 clock hours of applied preparation in lecture and lab experience in Cosmetology 140, 152, 153, 154, 155, 156, 157, 158, 159, 163, and 164, the student will be issued 57 units of credit and will be eligible to take the State Board of Cosmetology examination to become a licensed cosmetologist. Citrus College also offers advanced courses for licensed cosmetologists and barbers, skin care, and cosmetology instructor training.

Cosmetology Courses

COS 140
Introduction to Cosmetology
12 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course is designed for the beginning cosmetology student. Lectures, demonstrations, and practical experience in the following areas: careers in cosmetology, personal image improvement, sterilization, sanitation, bacteriology, manicuring, pedicuring, artificial nails, trichology, hair and scalp treatments, haircutting, wet hair-styling, thermal hairstyling, permanent waving, chemical hair straightening, hair coloring and bleaching, anatomy, physiology, chemistry, dermatology, facial treatments, make-up, and hair removal. 162 lecture hours; 162 lab hours.

COS 152
Beginning Chemical Hair Reformation
4.5 Units
Prerequisite: COS 140 with min. grade of C.

A continuation of the science and theory of professional hair sculpting, chemical reformation and procedures introduced in COS 140. Lectures, demonstrations, and practical experience in the following areas: permanent waving, chemical straightening, chemistry of products, and the proper use of professional implements. 45 lecture hours, 117 lab hours.

COS 153
Advanced Chemical Reformation of the Hair
4.5 Units
Prerequisite: COS 152 with min. grade of C.

A continuation of the science and theory of professional hair sculpting and permanent waving techniques and procedures introduced in COS 152. Lectures, demonstrations, and practical experience in the following areas: hair reconditioning, trichology, and scalp treatments. 45 lecture hours, 117 lab hours.

COS 154
Beginning Haircoloring
4.5 Units
Prerequisite: COS 140 with min. grade of C.

A continuation of the science and theory of professional hair coloring techniques and procedures introduced in COS 140. Lectures, demonstrations, and practical experience in the following areas: chemistry of products and hair analysis. 45 lecture hours, 117 lab hours.

COS 155
Advanced Haircoloring
4.5 Units
Prerequisite: COS 154 with min. grade of C.

A continuation of the science, theory, professional hair coloring techniques, and procedures introduced in COS 154. Lectures, demonstrations, and practical experience in the following areas: tinting procedures, bleaching procedures, specialized color application, and corrective hair color. 45 lecture hours, 117 lab hours.

COS 156
Beginning Manicuring
4.5 Units
Prerequisite: COS 140 with min. grade of C.

A continuation of the science and theory of professional manicuring techniques and procedures introduced in COS 140. Lectures, demonstrations, and practical experience in the following areas: manicure and pedicure, acrylic nails, nail wraps, nail tips, diseases, and disorders of the nail. 45 lecture hours, 117 lab hours.

COS 157
Advanced Manicuring
4.5 Units
Prerequisite: COS 156 with min. grade of C.

A continuation of the science and theory of professional manicuring techniques, and procedures introduced in COS 156. Lectures, demonstrations, and practical experience in the following areas: bacteriology, sterilization, and California state laws governing the practice of cosmetology. 45 lecture hours, 117 lab hours.

COS 158
Beginning Physical Restructuring of the Hair
4.5 Units
Prerequisite: COS 140 with min. grade of C.

A continuation of the science and theory of professional hairstyling techniques, and procedures introduced in COS 140. Lectures, demonstrations, and practical experience in the following areas: wet hair styling, thermal press and curl, safety, sanitation, and sterilization. 45 lecture hours, 117 lab hours.

COS 159
Advanced Physical Restructuring of the Hair
4.5 Units
Prerequisite: COS 158 with min. grade of C.

A continuation of the science and theory of professional hairstyling techniques and procedures introduced in COS 158. Lectures, demonstrations, and practical experience in the following areas: anatomy and theory of scalp massage, scalp treatments with electrical modalities and light therapy, and identifying diseases and disorders of the scalp. 45 lecture hours, 117 lab hours.

COS 163
Beginning Facial Treatment, Skin Care, and Make-up
4.5 Units
Prerequisite: COS 140 with min. grade of C.

A continuation of the science and theory of professional skin care, make-up techniques, and procedures introduced in COS 140. Lectures, demonstrations, and practi-
classical experience in the following areas: anatomy and physiology of the face and neck, diseases and disorders of the skin, chemistry of skin care products, electricity and electrical modalities for facials and skin care, light therapy for skin care, and facial treatments including packs and masks. 45 lecture hours, 117 lab hours.

COS 164
Advanced Facial Treatment, Skin Care, and Make-up
4.5 Units
Prerequisite: COS 163 with min. grade of C.
A continuation of the science and theory of professional skin care, make-up techniques, and procedures introduced in COS 163. Lectures, demonstrations, and practical experience in the following areas: hair removal by waxing and tweezing; daytime, evening, and corrective make-up. 45 lecture hours, 117 lab hours.

COS 165
Esthetician I
10 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An introductory course of skin care treatments, hair removal, make-up, application, anatomy and physiology. Disease and disorders of the skin, cosmetic chemistry, electrical current and modalities for skin care and disinfecting. There is a materials fee associated with the class. Part one of a two-part course. This course may be taken one time. 90 lecture hours, 270 lab hours.

COS 166
Esthetician II
10 Units
Prerequisite: COS 165 with min. grade of C.
This course completes the two-part esthetician program. It includes advanced and customized facial treatments, make-up artistry, color coordination, color coordination, and product knowledge. 90 lecture hours, 270 lab hours.

COS 167
Cosmetology Licensure Preparation
2 Units
Prerequisite: Minimum 1000 course hours earned or valid cosmetology license from another state.
This class will prepare the student to successfully complete the California State Test of Cosmetology. Emphasis on test techniques and preparation for state standards of all required procedures, consumer safety, and sanitary practice. This course may be taken two times. 36 lecture hours, 36 lab hours.

COS 170
Advanced Contemporary Techniques for Ethnic Hair Care
3 Units
Strongly recommended: Cosmetology License.
This course focuses on advanced principles and practices of the care and styling of ethnic hair. Emphasis on thermal texturizing, product knowledge use and evaluation, hair cutting, chemical reconstruction, and hair coloring. Offered for Grade or P/NP grading only. 36 lecture hours, 18 lab hours.

COS 171
Salon Readiness
2 Units
Strongly recommended: 1400 State Board of Barbering and Cosmetology hours.
Advanced class to instruct new graduates salon techniques and to update licensed cosmetologists returning to the industry. Emphasis on new methods of cutting, styling, color, and perms. This course may be taken two times. 36 lecture hours, 36 lab hours.

COS 176
Professional Skin Care - Phase I
3 Units Grade or P/NP
Prerequisite: Completion of the Cosmetology or Esthetician program.
This is an advanced course in current skin care procedures for the licensed cosmetologist and esthetician. Topics of study include: skin analysis, cosmetic chemistry, advanced makeup, body waxing techniques and salon management. Offered for Credit/No Credit Only. 54 lecture hours, 18 lab hours.

COS 177
Advanced Professional Skin Care II
3 Units Grade or P/NP
Prerequisite: COS 176.
An advanced course for the licensed cosmetologist and Esthetician. The course focuses on current equipment and the continuous techniques and products used in the skin care industry, also, on in depth studies in skin analysis, corrective treatments, electrical modalities, current and cosmeceuticals. This course may be taken one time. 54 lecture hours, 18 lab hours.

COS 180
Advanced Haircutting
1 Unit
Prerequisite: Completion of the Cosmetology program or its equivalent.
The advanced haircutting class is designed to introduce new methods and continually changing techniques in style-cutting to the experienced, professional cosmetologist and barber. There will be an emphasis on clipper-cutting and razor-cutting. 27 lecture hours, 9 lab hours.

COS 274
Cosmetology Advanced Hair Styling Workshop
2 Units
Prerequisite: Completion of the Cosmetology program or its equivalent.
An advanced class designed to introduce new methods and continually changing techniques to the experienced, professional cosmetologist. 36 lecture hours, 36 lab hours.

COS 280
Cosmetology Teacher Training-Delivery Skills
8 Units
Prerequisite: Must have completed 1600 hours of cosmetology course work.
This course is designed for licensed cosmetologists who want to become cosmetology instructors. It will introduce principles of learning, effective teaching methods and techniques, classroom management, and organizational skills. Emphasis is placed on planning, presenting, and evaluating lessons in both the classroom and clinic/laboratory setting. 72 lecture hours, 234 lab hours.

Counsling
(Counseling Department)
Career Education courses are designed for students who wish to explore in-depth their aptitudes, work experience, and decision-making skills. Career options, job trends, career goals and alternatives are studied in terms of the student's educational and vocational needs, special abilities, and previous training.

Career Education Courses
COUN 142
Careers In Teaching
1 Unit Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This is an exploratory course designed for
students considering a career in teaching. Through career assessments, personal exploration, occupational research and the study of contemporary work issues students will increase their understanding of the teaching profession. Students will be required to complete a field based assignment requiring observation and or assistance in a school or community agency. 18 lecture hours. CSU

COUN 143 Career Exploration 1 Unit Grade or P/NP Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. 
This course will provide students with career exploration techniques. Emphasis will be placed on selecting a career based on self-examination of interests, personality, skills, and values through assessment inventories, skill exercises, and career research. 18 lecture hours. CSU

COUN 145 Career/Life Planning 3 Units Grade or P/NP Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. 
Through personal exploration, occupational research and the study of contemporary work issues, students will increase their understanding of the relationship of the individual to the economic community and develop individual career plans. Maximum credit allowed for Career Education 143, 145, 150, and 155 is three units. 54 lecture hours. CSU

COUN 150 Job Search Planning 1 Unit Grade or P/NP Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. 
This course will prepare students to seek and secure employment. Students will prepare a resume, learn effective job interviewing skills, and develop a job search plan. Maximum credit allowed for COUN 145, 150, 155 is three units. 18 lecture hours.

COUN 154 Peer Counseling and Advising 1 Unit Strongly recommended: Read 099 if required by reading placement exam or required by reading level. 
This course is designed to provide ongoing training for Citrus College peer advisors. Primary concepts are covered in a modular form including advising principles; mentoring; guidance theories; client confidentiality; employee practices; methods of communication including listening skills and problem solving strategies. Students will become familiar with Citrus College student support services for referral purposes. Students demonstrate mastery of concepts presented in modules through discussion of work-site issues and role play. Offered for Grade or P/NP grading only. 18 lecture hours.

COUN 156 College Planning Today for Tomorrow 1 Unit Grade or P/NP Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. 
A course in helping students transition to college life. Students will receive practical information about college services, effective study habits, and individual educational planning. Emphasis is on college and career decisions as catalysts for growth. 18 lecture hours. CSU

COUN 158 Transfer Planning 1 Unit Grade or P/NP Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. 
A course in helping students transfer successfully to a four-year university. Students will receive information about educational options in California, college majors, transfer assistance, ASSIST (web based student transfer information), California Articulation Number System (CANS), college and universities fees and tuition, California State University/University of California/California independent systems, general education certification options, Inter-segmental General Education Transfer Curriculum (IGETC) curriculum, questions often asked about IGETC, filing periods for college/university applications, financial aid, scholarships, and transfer terminology. 18 lecture hours. CSU

COUN 159 On Course To Success 3 Units Grade or P/NP
This course will assist students in identifying the unique strengths they possess that will lead toward achieving academic mastery, career, and life success. Students will learn how they learn best and utilize this information to build a personal success plan. Through an exploration and critical analysis of the components of a successful student, students will analyze their reasons for attending college and develop a “success plan” that addresses maintaining motivation, goal setting, improving communication, and maintaining self-esteem, detailing how they may overcome obstacles. 54 lecture hours.

COUN 160 Strategies for College Success 3 Units Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. 
A course designed to give students the opportunity to create and change their habits and vision in order to have a rich, full, and rewarding scholastic life through adoption of positive attitude and critical thinking techniques. The course integrates the intellectual, physiological, social, and psychological aspects of being a college student. Learning strategies will be introduced that can be immediately and continuously applied so that students leave the course with confidence, enthusiasm, and a passion to succeed. 54 lecture hours. CSU;UC

Cooperative Education Courses

COUN 698A Cooperative Education 1 Unit Grade or P/NP Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives at their place of volunteer employment or training sites. This course may be taken four times. 60 lab hours arranged per semester.

COUN 698B Cooperative Education 2 Units Grade or P/NP Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

COUN 698C Cooperative Education 3 Units Grade or P/NP Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives at their place of volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.
hours arranged per semester.

**COUN 698D**

Cooperative Education
4 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.

A course designed to assist students in planning and accomplishing meaningful learning objectives at their place of paid employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

**COUN 699A**

Cooperative Education
1 Unit
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.

A course designed to assist students in planning and accomplishing meaningful learning objectives at their place of paid employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

**COUN 699B**

Cooperative Education
2 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.

A course designed to assist students in planning and accomplishing meaningful learning objectives at their place of paid employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.

**COUN 699C**

Cooperative Education
3 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.

A course designed to assist students in planning and accomplishing meaningful learning objectives at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.

**COUN 699D**

Cooperative Education
4 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.

A course designed to assist students in planning and accomplishing meaningful learning objectives at their place of paid employment or training sites. This course may be taken four times. 300 lab hours arranged per semester.

**Computer Science & Information Systems**

The CSIS program includes microcomputer applications, programming languages, and computer support of business organizations. The program offers state-of-the-art training in the use of business application software to prepare students for professional careers, transfer study, and/or personal use. Students receive individual hands-on training in laboratory facilities. Faculty work closely with industry and business to ensure relevant training.

**Computer Science and Information Systems Courses**

(See Also Accounting, Business, and Office Technology and Computer Applications)

**CSIS 105**

Introduction to Windows and Personal Computers
2 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course covers computer literacy concepts. It provides an introduction to the personal computer and the Windows operating system. The course prepares students to operate a computer using the Windows interface. It is designed for students with no previous computer experience. 36 lecture hours. CSU

**CSIS 107**

Fundamentals of Information Technology
4 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Strongly recommended: Knowledge of MS Windows.

This course covers essential concepts of information technology. Topics include computer hardware, software, programming concepts, network/Internet technologies, ethics and emerging technologies. 72 lecture hours. CSU; UC

**CSIS 109**

Network and Computer Security
4 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Covers basics of general security concepts, network security, communication security and infrastructure security. Business continuity, disaster recovery, planning and prevention will be covered. This course will lay the foundation for attendees to complete the CompTIA Security+ certification tests. This course may be taken four times. 54 lecture hours, 54 lab hours.

**CSIS 111**

Introduction to Programming Concepts and Design
4 Units
Grade or P/NP
Prerequisite: CSIS 107.


An introduction to the principles of computer programming and software development. Topics covered include the program development cycle, developing algorithms, data and control structures, structured programming, and object-oriented programming. Students are introduced to Visual Basic.Net and Visual C++.Net to help illustrate programming concepts common to modern high-level programming languages. 72 lecture hours. CSU; UC

**CSIS 119**

Introduction to Web Programming
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Prerequisite: CSIS 105 or CSIS 107.

This course provides students with the skills to design and publish Web pages using the latest version of XHTML. Students will also work with XML and JavaScript to create custom Web pages for personal and professional environments. 54 lecture hours.

**CSIS 130**

Microcomputer Applications I
4 Units
Grade or P/NP
Strongly recommended: CSIS 105 or 107. Also READ 099 if required by reading placement exam or if required by reading level.

Students will use the personal computer to learn an office suite, such as Microsoft Office, that includes word processing, electronic spreadsheets, database management systems, multimedia/presentation graphics, and personal information management. Preparations to take...
the Microsoft Office User Specialist certification exams. 72 lecture hours. CSU; UC

CSIS 140
Java Programming with Game Applications
4 Units  Grade or P/NP
Prerequisite: CSIS 111.
An introduction to the Java programming language that allows students to design and solve a wide range of applications. The materials to be covered will include Java applications, controls structures, arrays, and object-based/oriented programming, and an introduction to Java applets. Some of the applications involve creating graphical games using the Java programming language. Emphasis is placed on good design techniques and documentation. This course may be taken three times. 72 lecture hours. CSU; UC

CSIS 141
Java Script
4 Units
Prerequisite: CSIS 111 and 119.
This course offers an introduction to the Java Script language that allows students to design and solve a wide range of web applications. The materials to be covered will include variables, functions, objects, events, data types, operators, decision making with control structure and statements, windows and frames, forms, dynamic HTML and animation, cookies and security, debugging Java Script, server side Java Script, database connectivity, working with Java Applets and embedded data. Emphasis is placed on good design techniques and documentation. This course may be taken two times. 72 lecture hours, 18 lab hours. CSU

CSIS 150
Web Development with Dreamweaver
3 Units  Grade or P/NP
Prerequisite: CSIS 105 or CSIS 107.
This course is part of a series exploring the Macromedia Suite (Dreamweaver, Flash, Fireworks). This course introduces the basic features of Flash to create media-rich elements that integrate with Web pages. Top topics include: the Flash interface, creating animations, adding buttons, actions, and sounds. 36 lecture hours.

CSIS 151
Web Development with Dreamweaver II
2 Units  Grade or P/NP
Strongly recommended: CSIS 150
Web Development with Dreamweaver I.
This course is part of a series exploring the Macromedia Suite (Dreamweaver, Flash, Fireworks). This course introduces additional tools in Dreamweaver for building and enhancing Web sites. Topics include: working with frames, forms, templates, and style sheets. This course may be taken two times. 36 lecture hours.

CSIS 154
Web Development with Fireworks
2 Units  Grade or P/NP
Prerequisite: CSIS 105 or CSIS 107.
Strongly recommended: CSIS 150.
Also, READ 099 if required by reading placement exam or if required by reading level.
This course is part of a series exploring the Macromedia Suite (Dreamweaver, Flash, Fireworks). This course introduces the basic features of Fireworks to create, modify, and export graphic objects to Web design software such as Dreamweaver. Topics include: the Fireworks workspace, vector/bitmap graphics, text enhancements, and building interactive graphics. 36 lecture hours.

CSIS 155
Web Development with Flash
2 Units  Grade or P/NP
Prerequisite: CSIS 105 or CSIS 107.
Strongly recommended: CSIS 150, READ 099 if required by reading placement exam or if required by reading level.
This course is part of a series exploring the Macromedia Suite (Dreamweaver, Flash, Fireworks). This course introduces the basic features of Flash to create media-rich elements that integrate with Web pages. Topics include: the Flash interface, creating animations, adding buttons, actions, and sounds. 36 lecture hours.

CSIS 156
Electronic Spreadsheets Using Microsoft Excel
3 Units  Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course covers comprehensive instruction in the use of spreadsheet software to create, edit, store, retrieve, and print spreadsheets and charts. Topics include completing calculations, making decisions, organizing and graphing data, developing professional looking reports, publishing organized data to the Web, and accessing real-time data from Web sites. 54 lecture hours.

CSIS 166
Introduction to PowerPoint
2 Units  Grade or P/NP
Prerequisite: CSIS 105 or CSIS 107.
Strongly recommended: CSIS 150 Web Development with Dreamweaver I.
An introduction to a presentation graphics program that lets you create a high-quality presentation that is both interesting to the audience and effective in its ability to convey your message. Using a computer you can create a simple overhead transparency or a sophisticated on-screen electronic display. 36 lecture hours, 18 lab hours.

CSIS 167
Introduction to MS Publisher
2 Units  Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course offers an introduction to using MS Publisher. MS Publisher allows you to create and design newsletters, brochures, calendars, and flyers. Using a computer you can create high-quality publications suitable for course work, professional purposes, and personal use. The course also covers concepts of publishing on the World Wide Web. 36 lecture hours.

CSIS 168
Designing Web Sites
3 Units  Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Also, CSIS 105.
This course offers an introduction to desktop publishing concepts using MS Publisher. MS Publisher allows you to create and design newsletters, brochures, calendars, and flyers. Using a computer you can create high-quality publications suitable for course work, professional purposes, and personal use. The course also covers concepts of publishing on the World Wide Web. 36 lecture hours.

CSIS 175
Introduction to Access
4 Units  Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Using hands-on” microcomputers, develop the skills necessary to define, create, and maintain a fully programmed database system using Microsoft Access in a Windows environment. The course covers concepts, design, tables, reports, menus, analysis of data management requirements, and design of a database to meet those needs. 72 lecture hours.

CSIS 190
Introduction to Flash Game Programming
4 Units  Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Introduction to Macromedia® Flash MX2004 game programming using Action Script 2. Those areas of Flash MX 2004 proficiency needed for programming games are also introduced in this course. This course may be taken two times. 72 lecture hours. CSU
Dance (Fine and Performing Arts Department)

Dance classes at Citrus prepares you for many opportunities in the world of dance. Classes are offered in jazz dance, classical ballet, tap dance and modern dance.

Dance Courses (See Also Music)

**CSIS 225**
Object Oriented Programming with C++
4 Units
Prerequisites: MATH 150 and CSIS 111.
This course is a second semester course in object-oriented programming using the C++ language. Problem analysis and algorithm design will serve as the foundation for the use of functions, control structures, user-defined data types, arrays, searching and sorting algorithms, use of streams and external files, structures, data abstraction, and software development methods. 72 lecture hours, 18 lab hours. CSU; UC

**CSIS 230**
Microcomputer Applications II
4 Units
Prerequisite: CSIS 130.
A second course in the use of microcomputers for personal and professional productivity. Covers the advantages of using integrated software over a single application. Practical experience in the integration of Windows programs and the World Wide Web/HTML. This course may be taken two times. 72 lecture hours, 18 lab hours. CSU; UC

**DANC 102**
History of Dance
3 Units
Grade or P/NP
A survey of dance from tribal, ethnic, and folk dance forms including Renaissance Europe, Louis XIV, the Golden Age of Ballet, and the Diaghilev Era, concluding with 20th Century dance including jazz, African-American influences, neo-classic ballet, modern, and world dance. 54 lecture hours. CSU; UC

**DANC 103**
Introduction to Dance
1 Unit
Grade or P/NP
An introduction to dance as an art form through lecture, video, and activity. The student will experience historical and contemporary dance forms, such as ballet, modern jazz, hip hop, tap, and ballroom. 18 lecture hours, 36 lab hours. CSU; UC

**DANC 130**
Alignment and Correctives
2 Units
A class for non-dancers and dancers seeking an introduction to the structural aspects that affect movement and gait. Lectures include biomechanical and neuromuscular aspects of the body. Practical hours include in-depth study of Pilates mat techniques and Gyro-kinetics. This course may be taken four times. 36 lecture hours, 18 lab hours. CSU; UC

**DANC 159**
Beginning Tap
1 Unit
Grade or P/NP
Designed to instruct students in the dance technique of beginning tap. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU; UC

**DANC 160**
Beginning Jazz Dance
1 Unit
Grade or P/NP
A survey of the basic skills in jazz movement. This class provides basic technique and practice warm-ups, stretching, body control, and the building of stamina and strength progressing to dance combinations. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU; UC

**DANC 161**
Beginning Modern Dance
1 Unit
Grade or P/NP
The study of dance through varied individual and group experiences in Beginning Modern Dance, with emphasis on increasing the individual’s ability to use movement creatively. This course may be taken four times with the objective of improving proficiency in previously learned skills by further repetition and supervised instruction. 18 lecture hours, 36 lab hours. CSU; UC

**DANC 162**
Beginning Ballet
1 Unit
Grade or P/NP
Designed to instruct students in the dance technique of classical ballet. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU; UC

**DANC 163**
Dance Movement for the Performer
1 Unit
Grade or P/NP
A course in choreography designed for students wishing an in-depth performance experience. Elementary: Introduction to dance and body movement through acquisition of basic repertoire. Intermediate: Further expansion of established repertoire with emphasis on technique and developmental concepts.

**DANC 164**
Commercial Dance Techniques
2 Units
Grade or P/NP
A course designed for the music student in jazz dance techniques, body control techniques, dance styles, performance preparation, and audition techniques. This course may be taken four times. 18 lecture hours, 54 lab hours. CSU; UC

**DANC 165**
Summer Dance Conservatory
3 Units
This course provides beginning and intermediate students with ballet, modern, jazz, hip hop, tap, video dance, choreography, and rehearsal techniques needed for a showcase performance. Each student receives a concentrated experience in dance training, choreography, and culminates in a stage dance performance. This course may be taken four times. 18 lecture hours, 108 lab hours. CSU

**DANC 171**
Introduction to Choreography/Improvisation
2 Units
Grade or P/NP
Prerequisite: DANC 160 or 161 or 162.
An introduction and exploration of the art of dance composition. Course will include the elements of experimentation, imagination, and improvisation through choreographic exercises. This course may be taken four times. 18 lecture hours, 54 lab hours. CSU; UC

**DANC 172**
Composition in Group Form
2 Units
Grade or P/NP
Prerequisite: DANC 161.
A practical course guiding the student in choreographic structure, designed specifically for group forms. All movement exploration will be on the basis of modern dance technique. This course may be taken four times. 18 lecture hours, 54 lab hours. CSU; UC

**DANC 200**
Dance Kinesiology
3 Units
Grade or P/NP
An introduction to and exploration of the structural aspects of a dancer’s body and factors that affect movement in dance. Lectures include the structural, biomechanical and neuromuscular aspects of the dancer’s body, 54 lecture hours. CSU; UC
DANC 259  
Intermediate Tap I  
1 Unit  
Grade or P/NP  
Prerequisite: DANC 159 or Audition. 
Designed to instruct students in the intermediate dance technique of tap. More study of the positions and combinations of tap. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC

DANC 260  
Intermediate Jazz Dance I  
1 Unit  
Grade or P/NP  
Prerequisite: DANC 160 or Audition. 
Development of the techniques necessary to execute modern jazz dance. This class is designed to further develop the techniques of the student with intermediate instruction in stretching, body control, strength, stamina, more challenging dance combinations and progression of personal style. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU;UC

DANC 261  
Intermediate Modern Dance I  
1 Unit  
Grade or P/NP  
Prerequisite: DANC 161 or Audition. 
A continuing study of modern dance with more in-depth instruction in the technique and creative elements of the dance form, including individual and group in-class projects. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU;UC

DANC 262  
Intermediate Ballet I  
1 Unit  
Grade or P/NP  
Prerequisite: DANC 162 or Audition. 
Designed to instruct students in the intermediate dance technique of classical ballet. A more in-depth study of the positions and combinations of ballet. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU;UC

DANC 263  
Dance for Musical Theatre  
4 Units  
Grade or P/NP  
Corequisite: MUS 116 or 126. 
This course is an in-depth performance experience focusing on styles of body movement for Musical Theatre stage productions. The fundamentals of dance will be reviewed, including basic ballet positions and exercises and basics in tap. Concepts of the history of dance in musical stage will also be explored. This course may be taken four times. 36 lecture hours, 108 lab hours. CSU;UC

DANC 264  
Popular Dance Techniques  
4 Units  
Grade or P/NP  
Corequisite: MUS 116 or 126. 
This course is an in-depth performance experience focusing on popular dance styles. The fundamentals of dance will be reviewed, and a focus on modern dance styles and techniques will be explored. Concepts of commercial dance techniques for videos and pop stage will also be studied. This course may be taken four times. 36 lecture hours, 90 lab hours arranged. CSU;UC

DANC 265  
Musical Staging: Rehearsal and Performance  
2 Units  
Grade or P/NP  
Corequisite: DANC 263. 
Special rehearsal and public performance above and beyond normal class expectations. This course may be taken four times. 18 lecture hours, 54 lab hours. CSU;UC

DANC 266  
Pop Dance: Rehearsal and Performance  
2 Units  
Grade or P/NP  
Corequisite: DANC 264. 
Special rehearsal and public performance above and beyond normal class expectations. This course may be taken four times. 18 lecture hours, 18 lab hours arranged. CSU;UC

DANC 269  
Intermediate Tap II  
1 Unit  
Grade or P/NP  
Prerequisite: DANC 259 or Audition. 
A more in-depth study of students’ abilities and techniques in tap dance. Increased emphasis on style, speed and accuracy of sounds. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC

DANC 270  
Intermediate Jazz Dance II  
1 Unit  
Grade or P/NP  
Prerequisite: DANC 260 or Audition. 
Designed to instruct students in the advanced techniques of advanced jazz dance for the purpose of performance. More challenging dance combinations and instruction in individual body control, strength, stamina, style, and line. This course may be taken four times. 18 lecture hours, 18 lab hours, 18 lab hours arranged. CSU;UC

DANC 271  
Intermediate Modern Dance II  
1 Unit  
Grade or P/NP  
Prerequisite: DANC 261 or Audition. 
A more advanced study of modern dance through varied individual and group experiences. Includes more complicated exercises and combinations with emphasis on the individual’s use of creative movement. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU;UC

DANC 272  
Intermediate Ballet II  
1 Unit  
Grade or P/NP  
Prerequisite: DANC 262 or Audition. 
A course in the advanced techniques of classical ballet for the purpose of performance. A more in-depth study of movement vocabulary centered on individual style, strength, and technique. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU;UC

DANC 275  
Performance Ensemble  
3 Units  
Grade or P/NP  
Corequisites: DANC 171 or 172 and 261 or 262. 
Dance ensemble designed to provide intermediate dance students performance experience in various dance styles. Course provides rehearsal and performance skill sharpening with the intent of public performance. Out of class rehearsal time may be necessary in order to complete production. Must be taken for two consecutive semesters in order to gain full potential from the course. This course may be taken four times. 18 lecture hours, 108 lab hours. CSU;UC

DANC 279  
Advanced Tap I  
1 Unit  
Grade or P/NP  
Prerequisite: DANC 269 or Audition. 
An advanced study of students’ abilities and techniques in tap dance. Increased emphasis on style, speed and accuracy of sounds. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC

DANC 280  
Choreography - Student Project  
2 Units  
Grade or P/NP  
Prerequisites: DANC 171 and 172. 
Corequisite: DANC 261 or 262. 
An in-depth choreography course utilizing the students organizational, creative and technical knowledge. The fundamentals of choreography will be reviewed and further development or choreographic motivation and structure will be explored. Individual project will be set in the ballet or modern dance style. This course may be taken two times. 18 lecture hours, 72 lab hours. CSU
DANC 281
Advanced Jazz Dance I
1 Unit
Grade or P/NP
Prerequisite: DANC 270 or Audition.
Designed to instruct students in the advanced techniques of advanced jazz dance for the purpose of performance. More challenging dance combinations and instruction in individual body control, strength, stamina, style, and line. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU; UC

DANC 287
Special Projects in Dance
2 Units
Grade or P/NP
Prerequisites: DANC 280 and 282.
Corequisites: DANC 269, 270, 271, and/or 272, depending upon emphasis.
An in-depth course utilizing the student's organizational, creative, and technical knowledge. The intermediate choreographic structure will be reviewed and further development of choreographic motivation and structure will be introduced. Selection of dance style may be chosen by the student with permission of the instructor. This course may be taken two times. 18 lecture hours, 72 lab hours. CSU

DANC 288
Citrus Dance Company - Touring Ensemble
3 Units
Prerequisite: Audition.
Dance touring ensemble provides intermediate to advanced level dance students. Professional quality performance experience in a variety of dance styles and settings. Course employs rehearsal and performance skill sharpening methods with the intent of gaining performance/touring experience. This course may be taken four times. 18 lecture hours, 108 lab hours. CSU; UC

DANC 289
Dance Concert Production
3 Units
Grade or P/NP
Prerequisite: Audition.
Live dance concert production. Students will function as dance members in a fully produced dance production. The course is also open to all qualified students who wish to participate in production. This course may be taken four times. 36 lecture hours, 72 lab hours. CSU; UC

DANC 290
Dance Academy
3 Units
Grade or P/NP
Prerequisite: Two consecutive semesters of DANC 190.
Corequisite: Concurrent enrollment required in DANC 269, 270, 271, and/or 272 depending on emphasis.
Performance ensemble designed to provide intermediate to advanced level dance students performance experience in various dance styles. Enables students to rehearse and perform a variety of choreographic techniques for the concert and commercial stage with the intent of public performance. Out of class rehearsal time may be necessary in order to complete production. This course may be taken four times. 18 lecture hours, 108 lab hours. CSU

Dental Assisting (Health Sciences Department)

The Dental Assisting Program prepares students for the California State Registered Dental Assistant Examination. This program is accredited by the American Dental Association Commission on Accreditation and the California State Board of Dental Examiners. Upon completion, the graduate is eligible to sit for the California State Registered Dental Assistant Examination and the National Certification Examination. Must maintain a minimum grade of "C" in all dental courses.

Dental Assisting Courses

DENT 100
Dental Assisting Basics
2.5 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course will give the beginning dental assisting student a foundational knowledge of basic terminology, structures of the oral cavity, tooth morphology, tissues of the teeth, charting, and oral health care. The student will be oriented to the profession of dentistry in terms of governing bodies, professional organizations, ethics and jurisprudence. 45 lecture hours.

DENT 101
Chairside Assisting
3 Units
Prerequisite: Completion of, or concurrent enrollment required in, DENT 100.
This course/lecture/lab course provides preclinical instruction in four-handed dentistry techniques and prepares the student to assist a dentist at chair side. Content includes: the use and care of dental equipment, oral evacuation, instrument transfer, tray setups, infection control, preparation of anesthetic syringe, rubber dam, tool/mirror matrix, cavity preparation, and rotary and hand instruments. Emphasis is placed on the responsibilities of a chair side dental assistant during general restorative procedures. 45 lecture hours, 45 lab hours, 27 lab hours arranged.

DENT 102
Dental Materials
2.5 Units
Prerequisite: Completion of, or concurrent enrollment required in, DENT 100.
This course presents the basic physical and technical aspects of dental materials utilized in restorative, and laboratory dental procedures. It is designed to develop the manipulative skills necessary for the application of these materials. 36 lecture hours, 36 lab hours, 18 lab hours arranged.

DENT 110
Introduction to Dental Assisting
1 Unit
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Open to anyone wanting to explore the possibilities of a career in dental assisting and/or dentistry. This class emphasizes introductory information and skills common to a dental assistant. Includes active learning and hands-on activities. 18 lecture hours, 9 lab hours.

DENT 121
Preclinical Dental Science
2 Units
Prerequisite: Completion of, or concurrent enrollment required in, DENT 100.
The study of the basic structure and function of the human anatomy as it relates to the oral cavity. This course provides instruction on oral histology and embryology, head and neck anatomy, and oral pathology with emphasis on their relationship to and affect on dental treatment. 36 lecture hours.

DENT 122
Infection Control in the Dental Office
1.5 Units
Prerequisite: Completion of, or concurrent enrollment required in, DENT 100.
This course is designed to prepare the dental assistant in the prevention of disease transmission in the work environment. Emphasis is placed on knowledge of the infectious disease process, use of barriers, sterilization, disinfection, OSHA requirements, and the concept of universal precautions. 27 lecture hours.

DENT 123
Preventive Dental Health
2 Units
Prerequisite: Completion of, or concurrent enrollment required in, DENT 100.
Fundamental skills involved in assessing the dental patient’s health, the effect on dental treatment and the adjustments to dental treatment needed to protect the physical welfare of the patient. This class
DENT 124
Dental Specialties
2 Units
Prerequisites: Completion of, or concurrent enrollment required in, DENT 100.
The scope of this course includes all aspects of dental specialties with emphasis on the procedures, terminology, the role of the auxiliary and special patient considerations. 36 lecture hours.

DENT 125
Dental Practice Management
2 Units
Prerequisites: Completion of DENT 100, 101, and 102.
This course is designed to provide instruction in the application of skills and responsibilities of a business assistant in a dental practice. Fundamentals in basic bookkeeping procedures, communication skills, appointment scheduling, dental insurance, records management, employment preparation, and banking/financial procedures. Instruction includes integration of material through lecture, practical experience and the use of computers. 36 lecture hours, 9 lab hours.

DENT 201
Dental Radiology
2 Units
Prerequisites: DENT 100, 101, 102.
This course encompasses the preclinical and clinical instruction in safety radiation, exposing of intra-oral radiographs utilizing both bisecting and paralleling technique, and all aspects of film processing and mounting. Student must be 18 years of age. 18 lecture hours, 54 lab hours.

DENT 202
Registered Dental Assistant
5 Units
Prerequisites: DENT 101, 102, 121, 122, 123, and 124.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course provides preclinical and, where appropriate, clinical practice in functions delegated to the dental assistant and the registered dental assistant under the jurisdiction of the California Dental Practice Act as specified by the rules and regulations of the Board of Dental Examiners. Emphasis is placed on the practical application of each task, competency of performance, demonstrated concern for patient safety, and an acquired background knowledge to support each duty. 72 hours lecture, 99 hours lab.

DENT 203
Dental Practice Experience
5.5 Units
Prerequisites: DENT 122, 124, and 201.
This course provides the student with the opportunity for application and performance of acquired knowledge and skills while assuming the role of a chair side assistant in a dental school setting or private dental office. This course may be taken two times. Offered for Grade or P/NP grading only. 300 hours lab.

DENT 204
RDA Clinical Procedures
1 Unit
Prerequisites: DENT 101, 102, 121, 122, 123, 124.
This course covers those duties requiring clinical competence for the RDA: coronal polishing, pit & fissure sealants and mouth mirror inspection. 12 lecture hours, 28 lab hours.

Cooperative Education Courses

DENT 698A
Cooperative Education
1 Unit
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Dental Assisting at their place of volunteer employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

DENT 698B
Cooperative Education
2 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Dental Assisting at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

DENT 698C
Cooperative Education
3 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Dental Assisting at their place of volunteer employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.

DENT 698D
Cooperative Education
4 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Dental Assisting at their place of volunteer employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

DENT 699A
Cooperative Education
1 Unit
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Dental Assisting at their place of paid employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

DENT 699B
Cooperative Education
2 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Dental Assisting at their place of paid employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.

DENT 699C
Cooperative Education
3 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Dental Assisting at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Dental Assisting at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.

DENT 699D
Cooperative Education
4 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Dental Assisting at their place of paid employment or training sites. This course may be taken four times. 300 lab hours arranged per semester.

Drafting Technology
(Technology & Engineering Department)

This drafting program provides coursework for majors such as engineering and architecture. In addition to the transfer program, a number of certificates are available.

Drafting Courses

DRAF 101
Computer Aided Design and Mechanical Drawing
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A basic course for pre-engineering, pre-architecture, and others who have had no previous Computer Aided Design (CAD) or mechanical drawings. 36 lecture hours, 72 lab hours. CSU

DRAF 102
Technical Illustration
2.5 Units
Strongly recommended: DRAF 101 or DRAF 112.
A basic course in pictorial drawing including freehand, mechanical, and CAD constructions in pictorial drawing. 36 lecture hours, 36 lab hours. CSU

DRAF 103
Advanced Mechanical Drawing
3 Units
Prerequisite: DRAF 101 or one year high school mechanical drafting.
Advanced techniques and the solution of drafting problems through a variety of practical applications rather than the theoretical of projection. Advanced problems in instrumental drawing, lettering, geometric construction, multi-view projections, sections, and auxiliary view. 36 lecture hours, 72 lab hours. CSU

DRAF 109
Intermediate Computer Aided Drafting (CAD)
2 Units
Strongly recommended: DRAF 101 or drafting industry experience. Also, READ 099 if required by reading placement exam or if required by reading level.
This course provides an overview of the application of microcomputers to the production of technical drawings and other computer graphics. Lectures, discussions, audiovisuals, outside reading and supervised computer laboratory projects are among the means employed to develop a comprehensive introduction to CAD. This course may be taken twice. 36 lecture hours, 36 lab hours. CSU

DRAF 111
Advanced Computer Aided Design and Drafting-Mechanical (CADD)
3 Units
Strongly recommended: DRAF 109 or DRAF 160 or ENGR 125.
Presents advanced Computer Aided Design and Drafting techniques used in the production of mechanical drawings, 3-D design and the management of AutoCAD. 36 lecture hours, 36 lab hours. CSU

DRAF 112
Introduction to Computer Aided Design (CAD) and Mechanical Drawing
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A basic course for pre-engineering, pre-architecture, and others who have had no previous Computer Aided Design (CAD) and mechanical drawing. 36 lecture hours, 72 lab hours. CSU

DRAF 149
Introduction to Portfolio Preparation
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course for students to develop individual portfolios. Development of portfolios will include architectural Computer Generated Imagery (CGI), multimedia, other design technology techniques, freehand drawing, 2D - 3D art and rendering. Students will develop career goals and knowledge required to understand various design professions for interviews in industry. 36 lecture hours, 54 lab hours. CSU

DRAF 150
Introduction to Architecture
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A non-drafting course for students interested in exploring the fields of architecture and architectural technology and developing a working knowledge of the planning and design of a residence. 54 lecture hours. CSU

DRAF 151
Basic Floor Plans and Functional Design
3 Units
Strongly recommended: DRAF 101 or 150.
Also READ 099 if required by reading placement exam or if required by reading level.
Introduction to Architectural graphic communication skills including: traditional pencil drawing and state of the art computer drawing. Analyze and apply architectural theory, principles and techniques in orthographic presentation drawings including floor plans, foundations, sections, design problems, lettering, line work, drawing to scale, symbols, notes, dimensions and three dimensional model making. Examination of presentation types and how they can be utilized to communicate architectural ideas. 36 lecture hours, 72 lab hours. CSU

DRAF 152
Basic Residential Structure Design and Drafting
3 Units
Prerequisite: DRAF 150 and 151 (151 may be taken concurrently).
Architectural drafting including: details of construction, framing of walls, ceilings and roofs, interior and exterior elevations, and cabinet details. Drafting techniques for completing a set of working drawings. 36 lecture hours, 72 lab hours. CSU

DRAF 153
Advanced Residential Detailing and Design
3 Units
Prerequisite: DRAF 152.
Design and detail drawing of two story and split level homes. Special requirements for sloping lots, under house garages, and basements. Architectural styles typical of larger homes. 36 lecture hours, 72 lab hours. CSU

DRAF 154
Commercial and Industrial Buildings
3 Units
Prerequisite: DRAF 152.
Designing and detailing small business and manufacturing buildings. Code requirements, special materials, and functional requirements. 36 lecture hours, 72 lab hours. CSU
DRAF 158
Perspective
2 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Projected control of one and two point perspective drawings, exterior and interior projects, shading and rendering of presentation drawings. 18 lecture hours, 54 lab hours. CSU

DRAF 160
Introduction to Architectural CAD
3 Units
Prerequisite: DRAF 109.
An introductory course in which the CAD system is applied to special problems in architecture. Techniques in creating symbol libraries are explored. Proper and efficient methods of producing plans, sections, details and elevations are introduced along with dimensioning fundamentals and sheet layout. 36 lecture hours, 36 lab hours. CSU

DRAF 189
History and Theory of Design
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A non-drafting course for students interested in exploring the fields of Computer Generated Imagery (CGI) and engineering design and developing a working knowledge of the Computer Generated Imagery and engineering design. 54 lecture hours. CSU

DRAF 190
Computer Imaging Practices for Industry and Architecture
3 Units
Prerequisite: DRAF 109.
This instructor led course teaches artists and technical directors methods for setting up, organizing and animating characters in Maya. 36 lecture hours, 54 lab hours.

DRAF 198
Special Problems in Drafting
1 Unit
Prerequisite: DRAF 152.
Supervised projects in specialized drafting topics, perspective, sheet metal drafting, map drafting or model making to meet the needs of students preparing portfolios or for specific job training. This course may be taken three times. 54 lab hours.

DRAF 200
Maya/Accelerator
3 Units
Prerequisite: DRAF 290.
Advanced concepts in modeling, character rigging, and animation, dynamics, and rendering in an intense, information-packed semester. Students will be taken through advanced workflows prepared by Alias/Wave front product experts, and through key highlights from Alias/Wave front’s Certified Training Offerings. 36 lecture hours, 54 lab hours.

DRAF 205
Introduction to Maya Embedded Language (MEL)
3 Units
Prerequisite: DRAF 290.
Introduces the student to Maya’s scripting language Maya Embedded Language (MEL). A series of workflow enhancements, applications, and problem solving examples are used to guide the student through important fundamental MEL scripting commands, functions, concepts, and techniques. 36 lecture hours, 54 lab hours.

DRAF 207
Perspective
3 Units
Prerequisite: DRAF 290.
This instructor led course teaches how to plan and carry out cloth simulations at an intermediate level within the Maya environment. With a focus on establishing sound workflow practices, students will work on a variety of effects to explore the relevant tools and their application. 36 lecture hours, 54 lab hours.

Cooperative Education Courses
DRAF 698A
Cooperative Education
1 Unit
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Drafting Technology at their place of volunteer employment or training sites. This course may be taken four times. 60 lab hours arranged per week.
DRAF 698B Cooperative Education 2 Units Grade or P/NP Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class. A course designed to assist students in planning and accomplishing meaningful learning objectives related to Drafting Technology at their place of employment or training sites. This course may be taken four times. 300 lab hours arranged per semester.

DRAF 698C Cooperative Education 3 Units Grade or P/NP Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class. A course designed to assist students in planning and accomplishing meaningful learning objectives related to Drafting Technology at their place of employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

DRAF 698D Cooperative Education 4 Units Grade or P/NP Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class. A course designed to assist students in planning and accomplishing meaningful learning objectives related to Drafting Technology at their place of employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

DRAF 699A Cooperative Education 1 Unit Grade or P/NP Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class. A course designed to assist students in planning and accomplishing meaningful learning objectives related to Drafting Technology at their place of employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

DRAF 699B Cooperative Education 2 Units Grade or P/NP Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class. A course designed to assist students in planning and accomplishing meaningful learning objectives related to Drafting Technology at their place of paid employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.

DRAF 699C Cooperative Education 3 Units Grade or P/NP Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class. A course designed to assist students in planning and accomplishing meaningful learning objectives related to Drafting Technology at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.

DRAF 699D Cooperative Education 4 Units Grade or P/NP Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class. A course designed to assist students in planning and accomplishing meaningful learning objectives related to Drafting Technology at their place of paid employment or training sites. This course may be taken four times. 300 lab hours arranged per semester.

Disabled Student Programs & Services (Counseling and Advisement Department)

Disabled Student Courses

DSPS 075 Individualized Assessment of Learning Strengths and Weaknesses 0.5 Units This course is designed for the student with special learning needs who may have a specific learning disability. Individual assessment of learning strengths and weaknesses will be completed to determine eligibility for services and to assist with early intervention in basic skills, learning strategies, study skills, and educational planning. Offered for Grade or P/NP grading only. Hours are arranged.

DSPS 085 E-Text Basics 1 Unit The course is designed to teach students with text disabilities to access and effectively utilize electronic text (e-text). Offered for Grade or P/NP grading only. 18 lecture hours.

DSPS 090 Empowerment for Students with Disabilities 2 Units A course designed to facilitate successful transition to the collegiate level for new students with disabilities. Upon completion of this course, students will be better prepared to assert their needs, make decisions, and practice coping strategies pertinent to their unique situation. Offered for Grade or P/NP grading only. 36 lecture hours.

DSPS 103 DSPS Technical Assistance Lab: Adaptive Technology 1 Unit Grade or P/NP Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Specialized instruction designed for students with disabilities who require adaptive computer technologies to effectively access the computer. The student will become empowered through the use of individualized learning materials, adaptive computer technology, and compensatory strategies intended to lessen the impact of the disability for achieving success in college. 54 lab hours.
Economics Courses

**ECON 100**

Economics
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Introduction to the concepts and tools of economic analysis, especially as they apply to the United States economy. The major topics studied are business organizations, government expenditures and taxation, business cycles, price determination, the distribution of income and economic growth. 54 lecture hours. CSU; UC

**ECON 101**

Principles of Economics
3 Units
Grade or P/NP
Strongly recommended: MATH 130. Also, READ 099 if required by reading placement exam or if required by reading level.
Microeconomics, an introductory course that focuses on the decision making from the viewpoint of the individual consumer, worker, and firm. Emphasis is on the price system, allocation of resources and income, supply and demand analysis, structure of the American industry, and applications to current economic policy and problems. 54 lecture hours. CSU; UC

**ECON 101H**

Principles of Economics/Honors
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A macroeconomics course that focuses on aggregate economic analysis and its applications. Topics include: theory of market systems; economic cycles including recession, unemployment and inflation; national income accounts; macroeconomic equilibrium; money and financial institutions; monetary and fiscal policy; and international trade and finance. It also tackles the application of the theory to different economic issues like power of business in the energy market, outsourcing and unemployment, lending practices among financial institutions and its effects on the real estate market, the budget deficit, the trade deficit, national health care proposals, and immigration. Students are expected to participate at an honors level which includes research of the application cases, analysis of issues, and strong critical thinking and writing skills to evaluate current policies and generate optimal solutions. 54 lecture hours. CSU; UC

**ELEC 100**

Introduction to Technology
3 Units
Grade or P/NP
Strongly recommended: MATH 130. Also, READ 099 if required by reading placement exam or if required by reading level.
An introductory course in technology stressing: magnetism, reactance, impedance, resonance, transformers, filters, and polyphase systems. 54 lecture hours, 54 lab hours. CSU

**ELEC 101**

Digital Electronics
4 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course covers the principles of digital computer logic circuit technology. Course study includes: logic gates, Boolean algebra, flip-flops, arithmetic circuits, counters, registers, memory, microprocessor structure, and analog-digital interface. ELEC 101 may be taken concurrently. 54 lecture hours, 54 lab hours.
ELEC 202
Solid State Devices
4 Units
Prerequisite: ELEC 101.
The study of semiconductor solid state and linear integrated circuit theory with the following devices: diodes, bipolar transistors, field effect transistors, operational amplifiers, times, optoelectronics, thyristors, with an introduction to lasers. In the laboratory the student will conduct experiments using electronic test equipment with discrete devices, including linear integrated circuits. 54 lecture hours, 54 lab hours.

Cooperative Education Courses

ELEC 698A
Cooperative Education
1 Unit
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Electronics at their place of volunteer employment or training sites. This course may be taken four times. 60 lab hours arranged per semester.

ELEC 698B
Cooperative Education
2 Units
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Electronics at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

ELEC 698C
Cooperative Education
3 Units
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Electronics at their place of volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

ELEC 698D
Cooperative Education
4 Units
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Electronics at their place of volunteer employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

ELEC 699A
Cooperative Education
1 Unit
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Electronics at their place of volunteer employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

ELEC 699B
Cooperative Education
2 Units
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Electronics at their place of paid employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.

ELEC 699C
Cooperative Education
3 Units
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Electronics at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.

ELEC 699D
Cooperative Education
4 Units
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Electronics at their place of paid employment or training sites. This course may be taken four times. 300 lab hours arranged per semester.

EMER 162
Principles of Emergency Management
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course provides an introduction to the principles of Emergency Management and Disaster Planning. Topics covered include: terrorist profiles, trends in terrorism, the emergency operations plan, response consideration to chemical and biological incidents and components of the emergency management system. 54 lecture hours.

EMER 163
Terrorism and Emergency Management
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course provides instruction to terrorism and the emergency management of terrorist types of acts. Topics covered include: concepts of emergency management, event management, local plans and resources, general biological terrorism concepts, medical consequences and planning guidelines. This course will present a foundation of the threat and explore mitigation techniques. 54 lecture hours.

EMER 164
Managing Hazardous Materials Incidents
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course provides an introduction to hazardous materials and management. Topics covered include; recognizing what
hazardous materials are, the problems they pose; and how to begin a safe and effective response to a Haz Mat incident. Upon successful completion of the course students are eligible to sit for the California State Specialized Training Institute (CSTTI) certification examination. 54 lecture hours.

**EMER 166**
Emergency Planning and Methodology
3 Units
*Strongly recommended: READ 099 if required by reading placement or if required by reading level.*
This course provides instruction to emergency planning and methodology. The course provides a study of pre-plan requirements, hazards and resource assessments, vulnerability analysis, methodology of planning, and public policy considerations. 54 lecture hours.

**EMER 167**
Practical Applications of Emergency Management
3 Units
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*
This course provides instruction to emergency management plan for a public or private sector organization. Explore the processes involved data gathering, hazard identification and vulnerability assessment, and plan development. Students will prepare a draft of an emergency plan for an organization of their choice. 54 lecture hours.

**EMER 168**
Emergency Operations Center (EOC) Management
3 Units
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*
The course provides an instruction to design, initiate, and operate an Emergency Operations Center (EOC). The course provides a study of determining the location for an EOC, the physical set-up of the EOC, and the management of EOC operations both in emergency and non-emergent situations. 54 lecture hours.

**English Courses**

**ENGL 030**
Writing Skills I
3 Units
*Prerequisite: Placement is based on multiple assessment measures or successful completion of non-credit course work below ENGL 030.*
*Strongly recommended: READ 019 if required by reading placement exam or if required by reading level.*
This course focuses intensively on English fundamentals including grammar, spelling, prewriting strategies, and basic paragraph development. This course is designed primarily for those students preparing for ENGL 040. 54 lecture hours, 14 lab hours arranged.

**ENGL 040**
Writing Skills II
3 Units
*Prerequisite: Placement is based on multiple assessment measures or successful completion of ENGL 040 with a min. grade of C.*
A college-level composition course emphasizing exposition, analysis, argument, and research techniques. Extensive writing practice based upon reading culturally diverse short stories and related materials. 54 lecture hours. CSU;UC

**ENGL 101**
Reading and Composition
3 Units
*Prerequisite: Placement is based on multiple assessment measures or completion of ENGL 100 with min. grade of C.*
A college-level composition course emphasizing exposition, analysis, argument, and research techniques. This composition honors course emphasizes exposition, analysis, argument, and research techniques. There is extensive writing practice based upon reading culturally diverse short stories and novels. Critical thinking skills are reflected in in-class presentations, collaborative projects, in-class essays, formal essays, and research paper. 54 lecture hours. CSU;UC

**ENGL 101H**
Reading and Composition/Honors
3 Units
*Prerequisite: Placement is based on multiple assessment measures or successful completion of ENGL 100.*
This composition honors course emphasizes exposition, analysis, argument, and research techniques. There is extensive writing practice based upon reading culturally diverse short stories and novels. Critical thinking skills are reflected in in-class presentations, collaborative projects, in-class essays, formal essays, and research paper. 54 lecture hours. CSU;UC

**ENGL 102**
Reading and Composition
3 Units
*Prerequisite: ENGL 101.*
Reading and writing about representative works of fiction, drama, and poetry. Critical thinking and cross-cultural awareness are emphasized. 54 lecture hours. CSU;UC

**ENGL 103**
Composition and Critical Thinking
3 Units
*Prerequisite: Completion of ENGL 101 with a min. grade of C.*
This course uses literature as a basis for the teaching of critical thinking and composition. The emphasis is upon the analysis of issues, problems, and situations represented in fiction, drama and poetry, and on the development of effective written arguments in support of the analysis. Meets the IGETC critical thinking requirement. 54 lecture hours. CSU;UC

**ENGL 103H**
Composition and Critical Thinking/Honors
3 Units
*Prerequisite: ENGL 101.*
Strongly Recommended: READ 099 if required by reading placement exam or if required by reading level.
This honors course uses literature as a basis for the teaching of in-depth critical
thinking and advanced composition. The emphasis is upon the analysis of issues, problems, and situations represented in literature and on the development of effective written arguments in support of the analysis. Critical thinking skills are demonstrated through research papers, in-class presentations, and collaborative exploration of material. Students are expected to demonstrate honors level work which includes strong critical thinking skills, thorough analysis of assigned readings, and presentation and leadership skills demonstrated through class participation. Meets the IGETC critical thinking requirement. 54 lecture hours. CSU;UC

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 104</td>
<td>Advanced Rhetoric: The Classical Essay</td>
<td>3</td>
<td>Prerequisite: ENGL 101.</td>
<td>This course is designed to help students develop critical thinking, writing and research skills beyond the level achieved in ENGL 101. Particular emphasis is placed on increasingly complex classical methods of invention, arrangement and style for writing assignments that demand sound organizational skills. Students will read and critically evaluate (for meaning, purpose, strategy and style) expository and argumentative essays from a variety of classical sources and multi-cultural perspectives and then use these essays as rhetorical models for their own writing assignments. Students will be required to test prejudices they hold, prove or disprove a hypothesis, evaluate the opinions of others, explain the effect of the media, and attempt to synthesize opposing arguments on an issue through critical thinking. Most of the written assignments will require library research and documentation. Meets the IGETC critical thinking requirement. 54 lecture hours. CSU;UC</td>
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<tr>
<td>ENGL 120</td>
<td>Introduction to Women's Literature</td>
<td>3</td>
<td>Strongly recommended: ENGL 101.</td>
<td>This course emphasizes culturally diverse texts written by and about women. Using a variety of literary genres, including short fiction, novel, poetry, drama, and film, students will critically analyze cultural roles and images of women from a variety of theoretical perspectives. Students will explore the challenges women have faced, the biologically and socially constructed roles they have assumed and sometimes rejected, and the successes and accomplishments they have achieved in a predominantly patriarchal climate. 54 lecture hours.</td>
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<tr>
<td>ENGL 210</td>
<td>Creative Writing I</td>
<td>3</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>Instruction and practice in various forms of creative expression such as the short story, drama, the novel, and poetry. Critical evaluation of professional and student writing. This course may be taken two times. 54 lecture hours. CSU</td>
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<tr>
<td>ENGL 211</td>
<td>Creative Writing II</td>
<td>3</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>A course in creative expression for students who desire to continue creative writing in the fields of fiction, drama, and poetry. This course may be taken two times. 54 lecture hours. CSU</td>
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<tr>
<td>ENGL 213</td>
<td>Horror Literature</td>
<td>3</td>
<td>Prerequisite: ENGL 101.</td>
<td>An introduction to horror literature, this course is designed to give students an understanding of the application of literary analysis to horror literature. 54 lecture hours. CSU;UC</td>
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<tr>
<td>ENGL 213H</td>
<td>Honors Horror Literature/Honors</td>
<td>3</td>
<td>Prerequisite: ENGL 101 or 101H.</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, ENGL 103. This honors course is designed to give the student a knowledge and an appreciation of Horror literature, both fiction and non-fiction. Critical analysis of such works from various perspectives is exemplified through research and written analysis. Special emphasis is given to the quality of the impact on literature of selected classics. 54 lecture hours. CSU;UC</td>
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<tr>
<td>ENGL 215</td>
<td>Introduction to English Literature I</td>
<td>3</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>Significant works of major British writers in historical perspective. Anglo-Saxon period through the eighteenth century with emphasis on Chaucer, Shakespeare, and Milton. 54 lecture hours. CSU;UC</td>
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<tr>
<td>ENGL 252</td>
<td>Introduction to English Literature II</td>
<td>3</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>Significant works of major British writers in historical perspective. Nineteenth and twentieth centuries with emphasis on the Romantic period, the Victorian period, and the novel. 54 lecture hours. CSU;UC</td>
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<tr>
<td>ENGL 261</td>
<td>Introduction to American Literature I</td>
<td>3</td>
<td>Students explore the context and influence of American literature from the Colonial period to the Civil War. Students examine specific literary works and their contributions to our personal and cultural context. 54 lecture hours. CSU;UC</td>
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<tr>
<td>ENGL 262</td>
<td>Introduction to American Literature II</td>
<td>3</td>
<td>Students will explore the context and influence of American literature from the Civil War to the present. Students examine specific literary works and their contributions to our culture, the continuation of traditional themes and the emergence of new forms and themes. 54 lecture hours. CSU;UC</td>
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<tr>
<td>ENGL 271</td>
<td>Introduction to World Literature: Ancient-Medieval</td>
<td>3</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>This course explores the relationships among history, philosophy and literature. Special attention has been placed on writers and thinkers of lasting significance, e.g. Homer, Sophocles, Plato, Virgil, Dante, etc. 54 lecture hours. CSU;UC</td>
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<tr>
<td>ENGL 272</td>
<td>Introduction to World Literature: Renaissance through Modern</td>
<td>3</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>This course explores the relationship among history, philosophy, and literature. Special attention has been placed on writers and thinkers of lasting significance, e.g. Machiavelli, Cervantes, Voltaire, Goethe, Dostoevsky, etc. 54 lecture hours. CSU;UC</td>
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<td>Course Code</td>
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<td>Description</td>
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<td>ENGL 291</td>
<td>Film as Literature</td>
<td>3</td>
<td>An introduction to film as literature, designed to give students an understanding of the application of literary analysis to film. 36 lecture hours. CSU; UC</td>
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<td></td>
<td><strong>Strongly recommended: ENGL 101. Also, READ 099 if required by reading placement exam or if required by reading level.</strong></td>
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<tr>
<td>ENGL 291H</td>
<td>Honors Film as Literature</td>
<td>3</td>
<td>This honors course is an introduction to film as literature, designed to give students an understanding of the application of literary analysis to film. Critical analysis of such works from various perspectives is exemplified through research and written analysis. Special emphasis is given to the quality of writing and illustration of award-winning books and selected classics. 36 lecture hours. CSU; UC</td>
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<td><strong>Strongly recommended: ENGL 101 or 103. Also, READ 099 if required by reading placement or if required by reading level.</strong></td>
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<tr>
<td>ENGL 293</td>
<td>Children's Literature</td>
<td>3</td>
<td>This honors course is an introduction to film as literature, designed to give students an understanding of the application of literary analysis to film. Critical analysis of such works from various perspectives is exemplified through research and written analysis. Special emphasis is given to the quality of writing and illustration of award-winning books and selected classics. 54 lecture hours. CSU; UC</td>
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<tr>
<td>ENGL 293H</td>
<td>Honors Children's Literature</td>
<td>3</td>
<td>This honors course is an introduction to film as literature, designed to give students an understanding of the application of literary analysis to film. Critical analysis of such works from various perspectives is exemplified through research and written analysis. Special emphasis is given to the quality of writing and illustration of award-winning books and selected classics. 54 lecture hours. CSU; UC</td>
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<tr>
<td>ENGL 294</td>
<td>Introduction to Shakespeare</td>
<td>3</td>
<td>An introduction to the works of William Shakespeare including representative tragedies, comedies and history plays. The course is designed to give students an understanding of the timelessness of Shakespeare's work. 54 lecture hours. CSU; UC</td>
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<tr>
<td>ENGL 296</td>
<td>Introduction to Folklore</td>
<td>3</td>
<td>An introductory survey course which includes the basic concepts and vocabulary of traditional folklore and literature. This course emphasizes content, form, process, and context of traditional oral and customary material culture: speech and names, riddles, proverbs, folk tales, ballads, myths, customs, festivals, games, crafts, drama, food, etc. 54 lecture hours. CSU; UC</td>
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<td></td>
<td><strong>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</strong></td>
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<tr>
<td>ENGL 298</td>
<td>Literature of the Bible</td>
<td>3</td>
<td>Reading and discussion of selected books from English translations of the Old and New Testaments. Emphasis is on the religious, social, political ideas, literary qualities, and textual problems. 54 lecture hours. CSU; UC</td>
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<td></td>
<td><strong>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</strong></td>
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<tr>
<td>ENGR 107</td>
<td>Network Technology</td>
<td>4</td>
<td>This course provides information covering the LAN and WAN. Network topologies and protocols are presented. This course may be taken two times. 54 lecture hours, 54 lab hours.</td>
<td></td>
</tr>
<tr>
<td>ENGR 108</td>
<td>Networking Operating Systems</td>
<td>4</td>
<td>This course provides information covering the areas of network operating systems used on LANS and WANS. This course includes installation and overview of popular server software. This course may be taken two times. 54 lecture hours, 54 lab hours.</td>
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</tr>
<tr>
<td>ENGR 109</td>
<td>Network and Computer Security</td>
<td>4</td>
<td>Covers basics of general security concepts, network security, communication security and infrastructure security. Business continuity, disaster recovery, planning and prevention will be covered. This course will lay the foundation for attendees to complete the ComTIA Security+ certification tests. 54 lecture hours, 54 lab hours.</td>
<td></td>
</tr>
<tr>
<td>ENGR 122</td>
<td>Engineering Drawing</td>
<td>3</td>
<td>Covers the application of the latest industrial design standards of orthographic projection and dimensioning specifications in the production of mechanical items and assemblies. 36 lecture hours, 72 lab hours. CSU; UC</td>
<td></td>
</tr>
<tr>
<td>ENGR 125</td>
<td>Introduction to Engineering CAD</td>
<td>2</td>
<td>An introduction to the use of computers in engineering drawing. This course includes hands-on use of IBM compatible hardware and AutoCAD software. 18 lecture hours, 54 lab hours. CSU; UC</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Prerequisites</td>
<td>Notes</td>
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<tr>
<td>ENGR 130</td>
<td>Engineering Graphics</td>
<td>3</td>
<td></td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>Covers the application of descriptive geometry in the solution of engineering problems. Presents the latest industrial design standards of orthographic projection, isometric sketching and dimensioning according to ANSI Y14.5 specifications. 36 lecture hours, 72 lab hours. CSU;UC</td>
</tr>
<tr>
<td>ENGR 135</td>
<td>Engineering Mechanics: Statics</td>
<td>3</td>
<td>MATH 190 and PHYS 201.</td>
<td>Strongly Recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>A vectorial treatment of the principles of statics with application to engineering problems. Composition and resolution of co-planar force systems; equilibrium of rigid bodies; distributed forces in trusses; frames and cables; shear and bending moments in beams; moments of inertia of areas and bodies and graphical methods are used to model force systems and equilibrium conditions as applied to engineering statics problems. 54 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>ESCI 110</td>
<td>Earth and Space Science for Educators</td>
<td>4</td>
<td>CHEM 106 or PHYS 106, MATH 150.</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>This course provides each prospective multiple subject teacher with an introductory survey of the fundamental concepts of Earth and space science and the interrelationships among these disciplines. Emphasis will be placed upon the comparative study of the Earth and the other planets, their formation and evolution, Earth’s atmosphere, hydrosphere, and lithosphere; the dynamics of each, and how they are interrelated. This course is recommended for students planning to take the CSET Multiple Subject Exam to become credentialed elementary school teachers in the State of California. 54 lecture hours, 54 lab hours. CSU</td>
</tr>
<tr>
<td>ESCI 118</td>
<td>Physical Geography</td>
<td>3</td>
<td></td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td></td>
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<td></td>
<td>A study of the basic physical elements of geography; maps, seasons and time, weather, climate, soils, natural vegetation, and land forms, and their relationships and distribution upon the face of the earth. 54 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>ESCI 120</td>
<td>Historical Geology</td>
<td>4</td>
<td>ESCI 120.</td>
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<td>The geological events of Earth history from the origin of our planet to the present time. Includes a summary of the evolution of the plants and animals of the Earth and a study of the fossils of the various periods of geologic time. Field excursions will be arranged. A transportation fee will be charged. 54 lecture hours, 54 lab hours. CSU;UC</td>
</tr>
<tr>
<td>ESCI 121</td>
<td>Environmental Geology</td>
<td>3</td>
<td></td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td></td>
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<td></td>
<td>A study of the Geologic materials, processes, and history in the State of California. Primary emphasis is on its unique rocks and minerals, its structure, and of the physical and chemical processes which have and will continue to shape it. Course will include three weekend trips to selected locales in California. A transportation/activities fee will be charged. This course may be taken two times. 54 lecture hours, 54 lab hours. CSU;UC</td>
</tr>
<tr>
<td>ESCI 122</td>
<td>Geology of Death Valley National Park</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>A study of the geologic materials and processes in Death Valley National Park. The primary emphasis is on the unique geomorphology and tectonic history of the park. Course also includes the study of regional minerals and rocks, aeolian processes, and tectonic features. Includes a weekend trip to the region. A transportation/activities fee may be charged. 36 lecture hours. CSU</td>
</tr>
<tr>
<td>ESCI 124</td>
<td>California Geology</td>
<td>4</td>
<td></td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<tr>
<td></td>
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<td></td>
<td>A study of the Geological materials, processes, and history in the State of California. Primary emphasis is on its unique rocks and minerals, its structure, and of the physical and chemical processes which have and will continue to shape it. Course will include three weekend trips to selected locales in California. A transportation/activities fee will be charged. This course may be taken two times. 54 lecture hours, 54 lab hours. CSU;UC</td>
</tr>
<tr>
<td>ESCI 140</td>
<td>Geography of Death Valley National Park</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<tr>
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<td>A study of the geologic materials and processes in Death Valley National Park. The primary emphasis is on the unique geomorphology and tectonic history of the park. Course also includes the study of regional minerals and rocks, aeolian processes, and tectonic features. Includes a weekend trip to the region. A transportation/activities fee may be charged. 36 lecture hours. CSU</td>
</tr>
</tbody>
</table>

Geology Courses

Earth Science (Physical and Natural Sciences Department)

Earth science consists of geology, physical geography and oceanography, all of which investigate the material and phenomena associated with the development of planet Earth. The term “earth science” includes environmental science and natural resources. The courses in this program are designed to meet the general education and lower division requirements for transfer and associate degree students.

Geography Courses

ESCI 118
Physical Geography

ESCI 120
Historical Geology

ESCI 121
Introduction to Geographic Information Systems

ESCI 122
Earth History

ESCI 124
Environmental Geology

ESCI 125
California Geology

ESCI 140
Geology of Death Valley National Park
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Grade or P/NP</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCI 141</td>
<td>Geology of Yosemite National Park</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>A study of the geologic materials and processes in Yosemite National Park. The primary emphasis is on the unique geomorphology and tectonic history of the park. Course also includes the study of regional minerals and rocks, igneous processes, glacial processes, and tectonic features. Includes a weekend trip to the region. A transportation/activities fee may be charged. 36 lecture hours. CSU</td>
</tr>
<tr>
<td>ESCI 142</td>
<td>The Geology of Channel Islands National Park</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>A study of the geologic materials and processes in Channel Islands National Park. The primary emphasis is on the unique geomorphology and tectonic history of the park. Course also includes the study of regional minerals and rocks, coastal processes, and tectonic features. Includes a weekend trip to the region. A transportation/activities fee may be charged. 36 lecture hours. CSU</td>
</tr>
<tr>
<td>ESCI 143</td>
<td>The Geology of Joshua Tree National Park</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>A study of the geologic materials and processes in Joshua Tree National Park. The primary emphasis is on the unique geomorphology and tectonic history of the park. Course also includes the study of regional minerals and rocks, igneous processes, and tectonic features. Includes a weekend trip to the region. A transportation/activities fee may be charged. 36 lecture hours. CSU</td>
</tr>
<tr>
<td>ESCI 144</td>
<td>The Geology of Sequoia National Park</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>A study of the geologic materials and processes in Sequoia National Park. The primary emphasis is on the unique geomorphology and tectonic history of the park. Course also includes the study of regional minerals and rocks, glacial processes, and tectonic features. Includes a weekend trip to the region. A transportation/activities fee may be charged. 36 lecture hours. CSU</td>
</tr>
<tr>
<td>ESCI 146</td>
<td>The Geology of Kings Canyon National Park</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>A study of the geologic materials and processes in Kings Canyon National Park. The primary emphasis is on the unique geomorphology and tectonic history of the park. Course also includes the study of regional minerals and rocks, igneous processes, glacial processes and tectonic features. A transportation/activities fee may be charged. May include a backpacking trip to the region with strenuous physical activity. 36 lecture hours. CSU</td>
</tr>
<tr>
<td>ESCI 130</td>
<td>Physical Oceanography</td>
<td>3</td>
<td></td>
<td></td>
<td>A study of marine geology and topography, physical processes within the marine environment, such as waves and currents, tides, sea-floor spreading, marine provinces, marine sediments, and environmental relationships. 54 lecture hours. CSU/UC</td>
</tr>
<tr>
<td>ESCI 146</td>
<td>The Geology of Kings Canyon National Park</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>A study of the geologic materials and processes in Kings Canyon National Park. The primary emphasis is on the unique geomorphology and tectonic history of the park. Course also includes the study of regional minerals and rocks, igneous processes, glacial processes and tectonic features. A transportation/activities fee may be charged. May include a backpacking trip to the region with strenuous physical activity. 36 lecture hours. CSU</td>
</tr>
<tr>
<td>ESCI 698C</td>
<td>Cooperative Education</td>
<td>3</td>
<td>Grade or P/NP</td>
<td></td>
<td>A course designed to assist students in planning and accomplishing meaningful learning objectives related to Earth Science at their place of volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.</td>
</tr>
<tr>
<td>ESCI 698D</td>
<td>Cooperative Education</td>
<td>4</td>
<td>Grade or P/NP</td>
<td></td>
<td>A course designed to assist students in planning and accomplishing meaningful learning objectives related to Earth Science at their place of volunteer employment or training sites. This course may be taken four times. Two hundred forty hours lab arranged per semester.</td>
</tr>
<tr>
<td>ESCI 699A</td>
<td>Cooperative Education</td>
<td>1</td>
<td>Grade or P/NP</td>
<td></td>
<td>A course designed to assist students in planning and accomplishing meaningful learning objectives related to Earth Science at their place of paid employment or training sites. This course may be taken four times. 75 hours arranged per semester.</td>
</tr>
<tr>
<td>ESCI 699B</td>
<td>Cooperative Education</td>
<td>2</td>
<td>Grade or P/NP</td>
<td></td>
<td>A course designed to assist students in planning and accomplishing meaningful learning objectives related to Earth Science at their place of paid employment or training sites. This course may be taken four times. One hundred fifty hours lab arranged per semester.</td>
</tr>
</tbody>
</table>
ESCI 699C
Cooperative Education
3 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Earth Science at their place of paid employment or training sites. This course may be taken four times. Two hundred twenty-five hours lab arranged per semester.

ESCI 699D
Cooperative Education
4 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Earth Science at their place of paid employment or training sites. This course may be taken four times. Three hundred hours lab arranged per semester.

English As A Second Language (Language Arts Department)
The English as a Second Language (ESL) program serves both resident and international students by providing a comprehensive selection of courses for those with limited English proficiency. ESL courses help students improve their knowledge of English for both personal and academic purposes while providing a way for students to gain access to advanced education. The ESL program also introduces international students to American culture and customs while developing the language skills they need to be successful in an American academic setting.

English As A Second Language Courses

ESL 020
English Language Skills II
3 Units Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures.
A course for low intermediate English language students providing practice in the four language skills—listening, speaking, reading and writing. Emphasis on production and comprehension of simple phrases, basic sentence construction, introductory reading skills and basic vocabulary. One of three core courses in ESL Level 2. 54 lecture hours. 9 lab hours arranged.
NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 022
Pronunciation and Conversation II
2 Units Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures.
Strongly recommended: For students enrolled in ESL Level 2 core courses. A course for low-intermediate students in comprehension and communication of spoken English. Emphasis is on building confidence in oral expression and refining pronunciation. 36 lecture hours.
NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 024
Reading/Vocabulary II
2 Units Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures.
A reading and vocabulary course for low-intermediate ESL students. The course is designed to help students expand their vocabulary through oral and written practice and improve their reading comprehension. One of three core courses in ESL Level 2. 36 lecture hours.
NOTE: THE UNITS FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 026
Grammar Fundamentals II
2 Units Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures.
A course for low-intermediate ESL students seeking to improve their grammatical accuracy in writing and speaking. Intensive review and practice of verb tenses, noun forms, adjectives, adverbs and modals, in a communicative context. One of three core courses in ESL Level 2. 36 lecture hours, 9 lab hours.
NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 030
English Language Skills III
3 Units Grade or P/NP
Strongly recommended: For students enrolled in ESL Level 3 core courses. Placement is based on multiple assessment measures or successful completion of ESL Level 2 core courses—ESL 020, 024 and ESL 026. A course for intermediate English language students providing additional practice in the four language skills—listening, speaking, reading and writing. Emphasis on vocabulary building, developing fluency in speaking, increasing written sentence complexity and developing reading skills. One of three core courses in ESL Level 3. 54 lecture hours. 9 lab hours arranged.
NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 032
Pronunciation and Conversation III
2 Units Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures.
Strongly recommended: For students enrolled in ESL level 3 core courses. A course for intermediate students in comprehension and communication of spoken English. Emphasis is on building confidence in oral expression, refining pronunciation, and reducing accent. 36 lecture hours.
NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 034
Reading/Vocabulary III
2 Units Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures or successful completion of ESL 024.
A vocabulary and reading course for intermediate ESL students. The course is designed to help students further expand vocabulary and reading skills. Emphasis is on building vocabulary through oral and written practice and improving reading comprehension. One of three core courses in ESL Level 3. 36 lecture hours.
NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 036
Grammar Fundamentals II
2 Units Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures or successful completion of ESL 026.
A course for low-intermediate ESL students seeking to improve their grammatical accuracy in written English. Intensive review and practice of meaning and use of syntactic structures such as verb tense, modals, noun and adjective forms, questions and negatives, passive voice, adverbs, and articles. One of three core courses in ESL Level 3. 36 lecture hours, 9 lab hours arranged.
NOTE: THE UNITS FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.
ESL 040
English Language Skills IV
3 Units Grade or P/NP
Prerequisite: ESL 030 or placement in ESL Level 4 based on multiple assessment measures.
Strongly recommended: For students enrolled in ESL level 4 core courses. This course parallels ENGL 040, preparing high-intermediate ESL students for ESL 100. It includes grammar, vocabulary, usage, and the writing skills of sentence and paragraph development. It also previews essay development and writing. One of three core courses in ESL Level 4. 54 lecture hours. 9 lab hours arranged. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 042
Pronunciation and Conversation IV
2 Units Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures.
Strongly recommended: For students enrolled in ESL Level 4 core courses. A course for high intermediate students in the comprehension and communication of spoken English. Emphasis is on building confidence in oral expression, refining pronunciation and reducing accent. 36 lecture hours. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 044
Reading Vocabulary IV
2 Units Grade or P/NP
Prerequisite: ESL 034 or placement in ESL Level 4 based on multiple assessment measures.
A reading and vocabulary course for high intermediate ESL students, designed to facilitate appropriate strategies for improving reading comprehension and developing vocabulary. Emphasis is on college-level vocabulary and reading skills. One of three core courses in ESL Level 4. 36 lecture hours. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 046
Grammar Review I
2 Units Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures or successful completion of ESL 036.
Strongly recommended: For students enrolled in ESL Level 4 core courses. A course for high-intermediate ESL students seeking to improve their grammatical accuracy in writing and speaking. Intensive review and oral and written practice of syntactic structures such as verb tense, passive voice gerunds and infinitives, and modal verbs.* One of three core courses in ESL level 4. 36 lecture hours, 9 lab hours arranged. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 053
Bridge to College Literature
2 Units Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures or successful completion of ESL 044.
Strongly recommended: Concurrent enrollment in or successful completion of ESL 100.
This vocabulary and reading course is designed to help ESL students develop the skills necessary for analyzing and writing about literature in English at the college level. 36 hours lecture. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 054
Bridge to College Reading
2 Units Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures or successful completion of ESL 044.
A reading and vocabulary course for advanced ESL students designed to improve their skills in the reading and analysis of academic text. Students will develop reading comprehension and study strategies in preparation for college-level coursework. 36 lecture hours. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 056
Grammar Review II
2 Units Grade or P/NP
Strongly recommended: For students enrolled in ESL level 5 core courses.
A course for high advanced ESL students seeking to improve their grammatical accuracy in writing and speaking. Further review and practice of complex syntactic structures such as verb forms, tag questions, conditional sentences, reported speech, modals and phrasal verbs, and subordinate clauses. 36 lecture hours, 9 lab hours arranged. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 100
Fundamentals of Composition
4 Units Grade or P/NP
Prerequisite: ESL 040 or placement in ESL level 5 based on multiple assessment measures.
This course parallels ENGL 100, preparing high-intermediate and advanced ESL students for college-level writing. It provides a review of English fundamentals and practice in critical thinking, paragraph development and essay writing with an emphasis on exposition. Continued practice in special writing problems common to second language learners. 72 lecture hours, 18 lab hours arranged. CSU; UC

Energy Systems Technology
This program is designed to prepare students who wish to seek employment in the field of Energy Systems Technology. Courses prepare students for designing, installing, and maintaining building systems with an emphasis on sustainability and energy efficiency. Employment as a Building Systems Design Technician or Building Maintenance and Operations Technician is available in both the public and private sectors.

EST 101
Introduction to Building Systems
1 Unit Grade or P/NP
This course is a basic overview of building systems. Topics include construction, bidding, operating systems, codes, heating and air conditioning, electrical and lighting, fire and life safety, plumbing, telecommunications, building automation, and sustainability. 18 lecture hours, 14 lab hours. CSU

EST 150
Green Building Systems Technology
3 Units Grade or P/NP
This course will explore the value of sustainability in building systems. Topics will include sources of energy, governmental regulations, green building certifications, construction management, and green material selection. 54 lecture hours, 16 lab hours. CSU
Forestry
(Physical and Natural Sciences Department)

These courses provide forestry majors with introductory coursework. Those students who do not intend to transfer as forestry majors may take the courses for either direct vocational application or for general interest.

Forestry Courses

FOR 101
Introduction to Forestry
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Covers the relationship of forests to our national and local life. The various forest sciences and the uses of the forest including timber, water, recreation, grazing, and wildlife. The forest organizations: federal, state, county and private. 54 lecture hours. CSU;UC

FOR 102
Introduction to Forest Ecology
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A lecture course examining the forest as a biological community, through which sustainability, biodiversity, ecosystem health and integrity, old growth, climate change, rainforest, and clear cutting are evaluated. 54 lecture hours. CSU;UC

FOR 103
Plant Identification
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course examining plant identification with emphasis on wild land plants. Other topics include plant physiology, taxonomy, plant communities and plant adaptations. 36 hours lecture, 36 lab hours, 18 lab hours arranged. CSU;UC

FOR 104
Introduction to Outdoor Recreation
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Covers the historic development of recreation and the role of the federal, state and local government in outdoor recreation. Other topics include economic impact, supply and demand, private enterprise, education, planning and management within the realm of recreation. 54 lecture hours. CSU

FOR 105
Wildland Fire Management
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course designed to provide the knowledge of the factors affecting fire behavior, fire control techniques and wild land fire prevention. Factors of topography, fuels and weather will be included. 54 lecture hours. CSU

FOR 106
Principles of Wildlife Management and Ecology
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A lecture course examining wildlife management as a science, through which a brief history of wildlife management, ecosystems, population ecology, animal behavior, food and cover, wildlife diseases, predation, endangered species, economics of wildlife, and fisheries are discussed. 54 lecture hours. CSU;UC

Cooperative Education Courses

FOR 698A
Cooperative Education
1 Unit Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Forestry at their place of volunteer employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

FOR 698B
Cooperative Education
2 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Forestry at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

FOR 698C
Cooperative Education
3 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Forestry at their place of volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

FOR 698D
Cooperative Education
4 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Forestry at their place of volunteer employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

FOR 699A
Cooperative Education
1 Unit Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Forestry at their place of volunteer employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

FOR 699B
Cooperative Education
2 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Forestry at their place of paid employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Grade or P/NP</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOR 699C</td>
<td>Cooperative Education</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.</td>
<td>A course designed to assist students in planning and accomplishing meaningful learning objectives related to Forestry at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.</td>
</tr>
<tr>
<td>FREN 102</td>
<td>French II</td>
<td>5</td>
<td>Grade or P/NP</td>
<td>Prerequisite: FREN 101 or one year of high school French.</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. A further study of the elementary French grammar and vocabulary which develops understanding, speaking, reading, and writing skills. Includes additional study of French. 90 lecture hours, 18 lab hours. CSU;UC</td>
</tr>
<tr>
<td>FREN 201</td>
<td>French III</td>
<td>4</td>
<td>Grade or P/NP</td>
<td>Prerequisite: FREN 102 or two years of high school French.</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. A course that introduces intermediate level French curriculum by presenting more advanced vocabulary, grammatical concepts, and cultural perspectives. Affords opportunities to apply communication skills to new social, professional, and travel contexts. Reading strategies and fundamentals of formal composition are introduced in conjunction with short, level-appropriate literary selections. 72 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>FREN 202</td>
<td>French IV</td>
<td>4</td>
<td>Grade or P/NP</td>
<td>Prerequisite: FREN 102 or two years of high school French.</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. A course emphasizing the development of effective skills for reading, understanding, and interpreting more advanced readings in French literature and culture. Extensive practice in oral and written expression at the intermediate-high level provided. Grammatical concepts are thoroughly reviewed and expanded. 72 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>GEOG 102</td>
<td>Cultural Geography</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Prerequisite: FREN 101 or one year of high school French.</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. A study of the patterns of human occupation and land use over the earth’s surface and their co-relation with the natural environment. Particular emphasis will be given to agricultural and industrial economics, settlement patterns and population studies. 54 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>GER 101</td>
<td>German I</td>
<td>5</td>
<td>Grade or P/NP</td>
<td>Prerequisite: GER 101 or two years of high school German.</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. A course introducing the student to German literature and culture through a series of readings by contemporary German authors. Extensive practice in oral and written expression is provided. Grammatical concepts are thoroughly reviewed and expanded. 72 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>GER 102</td>
<td>German II</td>
<td>5</td>
<td>Grade or P/NP</td>
<td>Prerequisite: GER 102 or two years of high school German.</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. A course designed to assist students in planning and accomplishing meaningful learning objectives related to Forestry at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.</td>
</tr>
<tr>
<td>GER 201</td>
<td>German III</td>
<td>4</td>
<td>Grade or P/NP</td>
<td>Prerequisite: GER 102 or two years of high school German.</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. A course introducing the student to German literature and culture through a series of readings by contemporary German authors. Extensive practice in oral and written expression is provided. Grammatical concepts are thoroughly reviewed and expanded. 72 lecture hours. CSU;UC</td>
</tr>
</tbody>
</table>
### Health Sciences Courses

**Health Sciences**

The courses listed in this area are for those persons needing specialization in certain health care or health service occupations.

#### HEAL 100

**Emergency Medical Services Career Preparation**

<table>
<thead>
<tr>
<th>Units</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Medical Office Procedures</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>A course emphasizing the development of effective skills for reading, understanding, and interpreting more advanced readings in German literature and culture. Extensive practice in oral and written expression at the intermediate-high level is provided. Grammatical concepts are thoroughly reviewed and expanded. 72 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>3</td>
<td>Medical Terminology</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>This course will teach nurses and medical assistants techniques in assisting the physician with routine physical examinations, diagnostic procedures and minor surgeries. Emphasis is placed on aseptic technique, instrumentation, and pharmacological intervention. 36 lecture hours, 54 lab hours.</td>
</tr>
<tr>
<td>3</td>
<td>Medical Terminology</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>The course is designed for advanced students of Medical Transcription. It consists of medical specialties, involving terminology, transcription of dictated medical reports relating to these specialties, as well as critical thinking/decision-making activities. It will also include medical procedures, psychological assessments, chemotherapeutic drugs, and technology. 72 lecture hours, 18 lab hours.</td>
</tr>
<tr>
<td>3</td>
<td>Medical Terminology</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>The course is designed for advanced students of Medical Transcription. It consists of medical specialties, involving terminology, transcription of dictated medical reports relating to these specialties, as well as critical thinking/decision-making activities. It will also include medical procedures, psychological assessments, chemotherapeutic drugs, and technology. 72 lecture hours, 18 lab hours.</td>
</tr>
<tr>
<td>3</td>
<td>Medical Terminology</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>This course will develop skills from holistic nursing's approach to therapeutic communication. It incorporates all five senses and includes the use of healing touch, aroma therapy, acupressure and other modalities to effectively communicate with the patient and others. 18 lecture hours.</td>
</tr>
<tr>
<td>3</td>
<td>Medical Terminology</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>The terminology of anatomy and physiology; the health problems of the patient; and the physician's diagnosis, and treatment. 54 lecture hours.</td>
</tr>
<tr>
<td>3</td>
<td>Medical Terminology</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>The course teaches common diseases terminology and surgical procedures as well as common terms utilized with cancer medicine, radiology, nuclear medicine, pharmacology and psychiatry by transcribing a medical record. 72 lecture hours, 18 lab hours.</td>
</tr>
</tbody>
</table>

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**Medical Terminology**

<table>
<thead>
<tr>
<th>Units</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Medical Terminology</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>The terminology of anatomy and physiology; the health problems of the patient; and the physician's diagnosis, and treatment. 54 lecture hours.</td>
</tr>
<tr>
<td>4</td>
<td>Medical Terminology</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>The course teaches common diseases terminology and surgical procedures as well as common terms utilized with cancer medicine, radiology, nuclear medicine, pharmacology and psychiatry by transcribing a medical record. 72 lecture hours, 18 lab hours.</td>
</tr>
</tbody>
</table>

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**Activity Coordinator**

<table>
<thead>
<tr>
<th>Units</th>
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</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Activity Coordinator</td>
<td>Prerequisite: HEAL 160.</td>
<td>This course will develop skills from holistic nursing's approach to therapeutic communication. It incorporates all five senses and includes the use of healing touch, aroma therapy, acupressure and other modalities to effectively communicate with the patient and others. 18 lecture hours.</td>
</tr>
</tbody>
</table>

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**Documentation**

<table>
<thead>
<tr>
<th>Units</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Activity and Social Service Documentation</td>
<td>Prerequisite: HEAL 164.</td>
<td>This course meets the documentation requirements established by Omnibus Reconciliation Act (O.B.R.A.) for activity leaders in skilled nursing facilities. This course will also be helpful to anyone involved with care in an extended care facility. 36 lecture hours, 54 lab hours.</td>
</tr>
</tbody>
</table>

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**Emergency Medical Technician - Basic**

<table>
<thead>
<tr>
<th>Units</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Emergency Medical Technician - Basic</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>The entry-level course in emergency training for those involved in Emergency Medical Services. 108 lecture hours, 54 lab hours.</td>
</tr>
</tbody>
</table>
Cooperative Education Courses

HEAL 698A Cooperative Education
1 Unit Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Health at their place of volunteer employment or training sites. This course may be taken four times. 60 lab hours arranged per semester.

HEAL 698B Cooperative Education
2 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Health at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

HEAL 698C Cooperative Education
3 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Health at their place of volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

HEAL 698D Cooperative Education
4 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Health at their place of volunteer employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

HEAL 699A Cooperative Education
1 Unit Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Health at their place of paid employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

HEAL 699B Cooperative Education
2 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Health at their place of paid employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.

HEAL 699C Cooperative Education
3 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Health at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.

HEAL 699D Cooperative Education
4 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Health at their place of paid employment or training sites. This course may be taken four times. 300 lab hours arranged per semester.

Heating & Air Conditioning (Public Services Department)

This program is designed to prepare students who wish to seek employment in the heating and air conditioning industry or qualify for a more responsible position within the field. Courses prepare students for the EPA exam, which is required in this industry. Employment as a technician is available in both the public and the private sectors.

Heating and Air Conditioning Courses

HEAT 170 Air Conditioning I
2 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Topics will include fundamentals of refrigeration theory and practice, introductory basic electricity, service of refrigeration equipment and accessories including compressors, condensers, evaporators, and metering devices. Review for EPA exam. 36 lecture hours, 18 lab hours.

HEAT 180 Air Conditioning II
2 Units Grade or P/NP
This course includes absorption systems, heating and humidifying, also heat load and heat pump systems, systems controls, boilers, and instruments. Prepares students for EPA exam. 36 lecture hours, 18 lab hours.

HEAT 182 Heating-Electrical and Gas
2 Units Grade or P/NP
This course includes absorption systems, heating and humidifying, also heat load and heat pump systems, systems controls, boilers, and instruments. Prepares students for EPA exam. 36 lecture hours, 18 lab hours.

HEAT 184 Electricity for Heating and Air Conditioning
2 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course in electricity covering the functions and operations of electric motors and controls used in mechanical systems. 36 lecture hours, 18 lab hours.
HEAT 186
Control Systems
2 Units Grade or P/NP
Strongly recommended: HEAT 170.
An explanation of control system theory, control hardware, and both simple and complex control systems, supervisory controls and the use of computers in control systems. 36 hours lecture, 18 hours lab.

HEAT 188
Trouble-Shooting Heating and Air Conditioning
2 Units Grade or P/NP
Strongly recommended: HEAT 170.
This course covers the techniques to locate, identify, and correct the problems that occur in heating, air conditioning, and refrigeration systems, both domestic and commercial. 36 lecture hours, 18 lab hours.

Cooperative Education Courses

HEAT 698A
Cooperative Education
1 Unit Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Heating and Air Conditioning at their place of volunteer employment or training sites. This course may be taken four times. 60 lab hours arranged per semester.

HEAT 698B
Cooperative Education
2 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Heating and Air Conditioning at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

HEAT 698C
Cooperative Education
3 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Heating and Air Conditioning at their place of volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

HEAT 698D
Cooperative Education
4 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Heating and Air Conditioning at their place of paid employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

HEAT 699A
Cooperative Education
1 Unit Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Heating and Air Conditioning at their place of paid employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

HEAT 699B
Cooperative Education
2 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Heating and Air Conditioning at their place of paid employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.

HEAT 699C
Cooperative Education
3 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Heating and Air Conditioning at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.

HEAT 699D
Cooperative Education
4 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.
During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Heating and Air Conditioning at their place of paid employment or training sites. This course may be taken four times. 300 lab hours arranged per semester.

History (Social Sciences Department)

History Courses

HIST 103
History of World Civilization up to 1500 C.E.
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
The course is a survey of emerging regional cultures and societies from the earliest civilizations to 1500. Consideration will be given to comparative and integrative analysis of their contributions to the fabric of world civilization. Particular focus will be given to cultural evolutionary parallels and the diffusion of ideas through migration and trade on a global scale. College level reading is strongly advised. 54 lecture hours. CSU; UC

HIST 103H
History of World Civilization up to 1500 C.E./Honors
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
The course is a survey of emerging regional cultures and societies from the earliest civilizations to 1500. Consideration will be given to comparative and integrative analysis of their contributions to the fabric of world civilization. Particular focus will be given to cultural evolutionary parallels and the diffusion of ideas through migration and trade on a global scale. Students are expected to work and participate at an honors level which includes strong critical thinking skills, thorough
discussion of historical readings, presentation and leadership skills demonstrated through class participation/presentation, and service learning in the community. 54 lecture hours. CSU;UC

HIST 104
History of World Civilization since 1876
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
The course offers a survey of world civilizations from 1800's regional isolation to modern-day globalization and its issues and problems. Consideration will be given to the political, economic, social, and intellectual forces present in the rise of the modern world. Particular focus will be given to the interrelatedness of historical events and on the comparisons of cultures and societies in a historical perspective. College-level reading is strongly advised. 54 lecture hours. CSU;UC

HIST 105
History of World Civilization - The Modern Period
3 Units
Strongly recommended: Successful completion of ENGL 100.
A survey of the political, economic, social and intellectual forces present in the rise of modern world civilization. An examination of the impact of western ideas and institutions on the non-western world and the interaction of European and non-European ideas and institutions. 54 lecture hours. CSU;UC

HIST 106
20th Century Western Civilization
3 Units
Strongly recommended: Successful completion of ENGL 100.
The transformation of Western Civilization since 1900, examining changes of institutions, modes of life, cultural, social and political movements. 54 lecture hours. CSU;UC

HIST 107
Political and Social History of the United States
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A survey of the political, economic and social development of the United States to 1876. This course meets the State requirement for American history and is designed for college transfer students. 54 lecture hours. CSU;UC

HIST 107H
Political and Social History of the United States/Honors
3 Units
Meet Honors Program entrance requirements that include eligibility for ENG 101 or completion of equivalent.
The course is a survey of the political, economic and social development of North American and the United States to 1876. Students will evaluate the forces that work to create political, economic, diplomatic, and social change in colonial and early US history, along with how individuals, society and government respond to change. Students will also study the historiography of early American history by evaluating how historical interpretation has changed over the years. Students will also engage in their own historiography by creating an original research paper focused on early U. S. history. The course is designed to create a stronger comprehension of early US history and strengthen analytical, critical thinking, community/global consciousness and communication skills. 54 lecture hours. CSU;UC

HIST 108
Political and Social History of the United States
3 Units
Grade or P/NP
Strongly recommended: ENGL 100.
A survey of political, economic, diplomatic, and social development of the U. S. from 1876 to the present. This course meets the State requirement for American history and is designed for college transfer students. 54 lecture hours. CSU;UC

HIST 108H
Political and Social History of the United States/Honors
3 Units
Strongly recommended: ENGL 100.
A survey of political, economic, diplomatic, and social development of the U. S. from 1876 to the present along with a survey of American historiography and the varying interpretations of these developments. This course meets the State requirement for American history and is designed for college transfer students. 54 lecture hours. CSU;UC

HIST 109
The World in Conflict - The 20th Century, a History
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A critical approach of the history of the 20th Century through major events and issues. 54 lecture hours. CSU;UC

HIST 110
A Survey History of Africa
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A survey of political, economic, social, and cultural history of Africa from ancient period to the present. 54 lecture hours. CSU;UC

HIST 111
History of the African America
3 Units
Grade or P/NP
Strongly recommended: Successful completion of ENGL 100.
An exploration of the cultural development and role of the African-American in the history of the United States from the African origin to the end of Reconstruction (1876). 54 lecture hours. CSU;UC

HIST 112
History of the African-Americans
3 Units
Grade or P/NP
Strongly recommended: Successful completion of ENGL 100.
An exploration of the cultural development and role of the African-American in the history of the United States from the end of the Reconstruction period (1876) to the present. 54 lecture hours. CSU;UC

HIST 120
British Life and Culture
3 Units
Strongly recommended: Successful completion of ENGL 100.
An overview of British culture and civilization. Offered for Grade or P/NP grading only. 54 lecture hours. CSU

HIST 127
Spanish Civilization
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Spanish Life and Culture provides an interdisciplinary global understanding of the culture and history of Spain. The course critically analyzes contemporary Spanish society by examining the social and historical traditions and institutions that shape the Spanish way of life in the 20th century. This course is the same as SPAN 127. 54 lecture hours. CSU;UC

HIST 130
History of Latin America
3 Units
Grade or P/NP
Strongly recommended: Successful completion of ENGL 100.
A general history of the major issues in Latin America's historical formation, specifically its social, economic, and political structures and experiences, from pre-Columbian times to the present. 54 lecture hours. CSU;UC
HIST 131
History of Latin American to 1825
3 Units
Grade or P/NP
Strongly Recommended: READ 099 if required by reading placement exam or if required by reading level.
The course is a survey of Latin American history from pre-Columbian times to the independence of Latin American lands. Special emphasis is given to the institutions of the past which have shaped the conditions of the emerging states. Relations between Latin American nations and the United States will also be explored. 54 lecture hours. CSU; UC

HIST 132
History of Modern Latin America
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Other: Students who have previously taken HIST 130 may not receive credit for this course.
The course is a survey of the social, economic and political history of Latin America from independence to the present. The legacy of colonialism will be considered as special emphasis is given to the development of cultural, political, and economic institutions. The course will give attention to the relationships between Latin America and the United States foreign policy. 54 lecture hours. CSU

HIST 139
History of California
3 Units
Strongly recommended: ENGL 100.
A survey of the political, social and economic development of the State of California from early Pre-Columbian American Indian communities and Spanish settlements to the present. 54 lecture hours. CSU; UC

HIST 140
History of the American West
3 Units
Grade or P/NP
Strongly recommended: Successful completion of ENGL 100.
A survey class of the region west of the Mississippi River designed to acquaint the students with the historical significance, events and personalities which made up this period. Primary emphasis will be on the 19th century. 54 lecture hours. CSU; UC

HIST 145
History of Mexico
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading level or if required by reading placement exam.
This course will survey the history of Mexico from the pre-Columbian period through the Conquest and the struggle for independence, the Revolution of 1910 and Mexico’s emerging role as a developing country. There will be a special emphasis placed on the growing economic and cultural intertwining of the American and Mexican people in the twentieth century. 54 lecture hours. CSU; UC

HUM 101
Humanities
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
The humanities are approached on four levels: art, music, literature, and philosophy. Includes the beginnings in Egypt, Babylonia, and Greece and proceeds chronologically to the medieval period. 54 lecture hours. CSU; UC

HUM 101H
Humanities/Honors
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
The humanities are approached on four levels: art, music, literature, and philosophy. Includes the beginnings in Egypt, Babylonia, and Greece and proceeds chronologically to the Medieval period. A critical in-depth reading of several primary sources is conducted in a discussion format. 54 lecture hours. CSU; UC

HUM 110
Humanities in the 20th Century
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course is concerned with critical analysis of the arts and philosophy from the late 19th century to the contemporary period. 54 lecture hours. CSU; UC

HUM 111
Humanities through the Arts
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An approach to the Humanities through the study of seven major arts. Each art is considered from the perspective of historical development, elements, meaning, form, and critical evaluation. 54 lecture hours. CSU; UC
Japanese
(Foreign Languages Department)

The Foreign Languages program offers four semesters of proficiency-based instruction in listening, speaking, reading, and writing Spanish, French, German, and Japanese. Areas of study include beginning and intermediate vocabulary, grammar and syntax, pronunciation, and cultural understanding. The program combines classroom lectures, guides practice and a variety of communicative activities in the target language, with individual work in the language lab, using various media.

Japanese Courses

JPN 101
Japanese I
5 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course in elementary Japanese grammar, vocabulary, and pronunciation which aims at understanding, speaking, reading, and writing simple Japanese and serves as an introduction to Japanese geography and culture. This course may be taken three times. 90 lecture hours, 18 lab hours. CSU;UC

JPN 102
Japanese II
5 Units Grade or P/NP
Prerequisite: JPN 101 or one year of high school Japanese.
A further study of elementary Japanese grammar and vocabulary which develops understanding, speaking, reading, and writing skills. Includes additional study of Japanese culture. This course may be taken three times. 90 lecture hours, 18 lab hours. CSU;UC

Library Technology
(Library)

The library technology program trains students for paraprofessional work in school, academic, research, public and special libraries.

Library Technology Courses

LIBT 100
Information Literacy
1 Unit
This course is an introduction to the use of information resources and technologies, emphasizing the principles of information competency. The course focuses on the organization of information and the research process. Students will be introduced to information resources available in libraries and on the Internet, how to successfully identify, select, evaluate and cite various types of information, and also the ethical and legal implications of information. 18 lecture hours. CSU;UC

LIBT 101
Introduction to Library Public Services
2 Units
This course is an introduction to the field of library technology. It surveys the philosophy and techniques of providing direct service to patrons in all types of libraries. The course covers the history of books and libraries, the philosophy and techniques of providing public service in different kinds of libraries, career exploration and resume writing, as well as an overview of the many functions of the library technician, including the use of catalogs and classification systems, circulation systems, reference, inter-library loans and others. 36 lecture hours.

LIBT 102
Reference Sources and Research Methods
3 Units Grade or P/NP
Students will survey and evaluate a broad range of reference materials in print and electronic formats. They will present a library orientation, practice the reference interview, prepare a bibliography, and formulate search strategies for answering user queries. 54 lecture hours. CSU

LIBT 201
Introduction to Cataloging
3 Units
An introduction to the tasks involved with cataloging and processing library materials. Includes descriptive and subject cataloging, classification, processing, card filing, and inventory. Covers AACR2 and MARC formats as well as the use of online data base services. 36 lecture hours, 54 lab hours.

LIBT 203
Introduction to Acquisitions
2 Units
An introduction to the techniques of selecting, ordering and receiving library materials. Training includes: bibliographic verification, library bookkeeping, preparation of requisitions and purchase orders, and correspondence with vendors. Theory and practice on a variety of paraprofessional library services including binding and repair of books and the preservation of books. 36 lecture hours.

LIBT 290
Children's Library Services
2 Units
This course provides an evaluation of library materials and services for children. Included in coursework is presentation of techniques for assisting in planning and carrying out reading programs and story hours. 36 lecture hours.

LIBT 295
Audiovisual Services
3 Units
A survey of the non print media and equipment common to media centers, libraries, and learning centers. Emphasis on the operation of equipment and the care of materials. Includes acquisition of commercial materials and production of local presentations. 36 lecture hours, 54 lab hours.

Linguistics
(Language Arts Department)

LING 101
Introduction to Language and Linguistics
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An introduction to the study of language and the fundamental concepts in the field of linguistics. Emphasis is on the nature of human language, including differences and universalities of linguistic structures, and the analysis of the syntactic, morphological, and phonological systems of language. First and second language acquisition and the role of language in society will also be explored. Does not meet Major Prep requirements for Anthropology. 54 lecture hours.

Mathematics
(Mathematics Department)

The Mathematics Program offers courses ranging from arithmetic to differential equations.

Mathematics course offerings may be grouped in the following manner: courses: High school equivalent courses: 017, 020, 029, 090, 115, 129,130, 131, 150 (or 148 and 149),151

Conventional college offerings: 160, 162, 165, 168,169, 170, 175, 190, 191, 210, 211 Business, biological science, social science: 162, 165

The department maintains a mathematics study center and computer lab where students can study and get help.

NOTE: All mathematics prerequisites must be completed with a minimum grade of “C”. It is strongly recommended that all prerequisites be taken within two years prior to enrollment in the course.
Mathematics Courses

MATH 017
Basic Math and Study Skills
3 Units
This course focuses on building whole number arithmetic skills to prepare students for MATH 020. This course covers arithmetic operations on whole numbers, a brief introduction to fractions and decimals, and incorporates study skills for success in mathematics courses. 54 lecture hours.

MATH 020
Arithmetic Fundamentals
3 Units
Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures or completion of MATH 017.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
The four basic operations of arithmetic on whole numbers, fractions, and decimals, with applications. Ratios, proportions, and percents with applications. 54 lecture hours.

MATH 029
Pre-Algebra
3 Units
Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures or successful completion of MATH 020.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course is designed to prepare a student for Elementary Algebra. Topics include a review of arithmetic, a study of signed numbers, an introduction to fundamental algebraic concepts, solving equations, and solving applied problems. 54 lecture hours, 36 lab hours.

MATH 115
Business Mathematics
3 Units
Grade or P/NP
Placement is based on multiple assessment measures including cut-scores or successful completion of MATH 029. Mathematics to solve typical business problems including: banking, discounts, markups, payroll, simple and compound interest, annuities, sinking funds, buying, financial reports, depreciation, inventory, taxes, insurance, stocks, and statistics. Computer assignments using Excel (or a similar application) will be used to cover many of the course topics. 36 lecture hours, 90 lab hours.

MATH 130
Elementary Algebra
4 Units
Grade or P/NP
Prerequisite: Placement is based on multiple assessment measures or completion of MATH 029 with min. grade of C.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Fundamental operations with polynomials and rational expressions, products and factoring, linear and quadratic equations in one variable, inequalities, exponents, radicals, graphing linear equations, systems of equations, applications and introduction to functions. 90 lecture hours.

MATH 131
Plane Geometry
4 Units
Grade or P/NP
Prerequisite: MATH 130.
A first course in geometry. Elementary logic, properties of geometric figures, parallel and perpendicular lines, ratio and proportion, congruence, area, and volume. 72 lecture hours.

MATH 148
Intermediate Algebra I
2.5 Units
Grade or P/NP
Prerequisite: MATH 130.
Presents the first half of a two-semester alternative to intermediate algebra. (MATH 150). Real number properties, first degree equations and inequalities, absolute value equations and inequalities, applications, polynomials, the binomial theorem, factoring, rational expressions, exponents, radicals, complex numbers, quadratic equations, applications, formulas, linear equations and inequalities, variation, functions, linear systems, conics, inverse functions, exponential, and logarithmic functions. 54 lecture hours.

MATH 149
Intermediate Algebra II
2.5 Units
Grade or P/NP
Prerequisite: MATH 148.
Presents the second half of a two-semester course in intermediate algebra. This course enables students to complete Intermediate Algebra (MATH 150) at a slower pace. Quadratic equations, applications, formulas, linear equations and inequalities, variation, functions, linear systems, conics, inverse functions, exponential, and logarithmic functions. 54 lecture hours.

MATH 150
Intermediate Algebra
5 Units
Grade or P/NP
Prerequisite: MATH 130.
Real number properties, first degree equations and inequalities, absolute value equations and inequalities, applications, polynomials, the binomial theorem, factoring, rational expressions, exponents, radicals, complex numbers, quadratic equations, applications, formulas, linear equations and inequalities, variation, functions, linear systems, conics, inverse functions, exponential, and logarithmic functions. 90 lecture hours. NOTE: This course may not be taken concurrently with either MATH 148 or 149. STUDENTS MAY NOT EARN MORE THAN A TOTAL OF FIVE UNITS IN ANY COMBINATION OF MATH 148, 149 AND 150.

MATH 151
Plane Trigonometry
4 Units
Grade or P/NP
Prerequisite: MATH 131 and MATH 149 or MATH 150.
Functions, the trigonometric functions, their graphs and identities: laws of sines and cosines; solutions of triangles; trigonometric equations; inverse trigonometric functions; polar coordinates; DeMoivre’s Theorem; exponential and logarithmic functions. 72 lecture hours. CSU/UC

MATH 160
Survey of Mathematics
3 Units
Grade or P/NP
Prerequisite: MATH 149 or MATH 150.
A course in mathematical concepts for the liberal arts student. Topics include sets and logic, problem solving, numeration systems, consumer applications, geometry, probability, statistics, and computer applications. 45 lecture hours, 27 lab hours. CSU

MATH 162
Introductory Mathematical Analysis
4 Units
Grade or P/NP
Prerequisite: MATH 149 or 150.
Concepts of function and limits; applied calculus emphasizing techniques of integration and differentiation with applications in social and life sciences, business administration, economics, and engineering technology. 72 lecture hours. CSU;UC

MATH 165
Introductory Statistics
4 Units
Prerequisite: MATH 149 or MATH 150.
Introductory course to statistics and probability, descriptive analysis, and presentation of data, hypothesis testing, statistical inference, normal curve, chi square, and applications in diverse disciplines. 72 lecture hours. CSU;UC
MATH 165H
Introductory Statistics/Honors
4 Units
Prerequisite: MATH 149 or 150.
Introduction to statistics and probability, descriptive analysis, and presentation of data, hypothesis testing, statistical inference, normal curve, chi square, and applications in diverse disciplines. Students are expected to work and participate at an honors level which includes strong critical thinking skills, thorough analysis of mathematical readings, presentation, and leadership skills demonstrated through class participation/presentation and service learning in the community. 54 lecture hours, 54 lab hours. CSU;UC

MATH 168
Mathematics for Elementary Teachers I
3 Units
Prerequisite: MATH 149 or 150.
The course is designed for prospective elementary teachers. The course covers sets, logic, number systems, number theory and algebra functions. Techniques in instructional delivery explored. 54 lecture hours, 18 lab hours. CSU;UC

MATH 169
Mathematics for Elementary Teachers II
3 Units
Prerequisite: MATH 168.
Second class for elementary school teachers. Course covers topics in measurement, geometry, probability and statistics. Techniques in the design of instruction delivery will be explored. 54 lecture hours, 18 lab hours. CSU;UC

MATH 170
College Algebra
3 Units
Prerequisite: MATH 149 or MATH 150.
Polynomial, rational, exponential, and logarithmic functions; matrices and determinants; theory of equations; analytic geometry, and mathematical induction. 54 lecture hours. CSU;UC

MATH 170H
College Algebra/Honors
3 Units
Prerequisites: MATH 149 or MATH 150.
Polynomial, rational, exponential, and logarithmic functions; matrices and determinants; theory of equations; analytic geometry, and mathematical function. 54 lecture hours. CSU;UC

MATH 175
Pre-Calculus
4 Units
Prerequisite: MATH 151.
Preparation for calculus; polynomial, rational, exponential, logarithmic, and trigonometric functions; analytic geometry; mathematical induction. 72 lecture hours. CSU;UC

MATH 190
Calculus with Analytic Geometry I
4 Units Grade or P/NP
Prerequisite: MATH 175.
Introduction to differential and integral calculus with applications; functions; limits; and continuity; techniques of differentiation; exponential; logarithmic; and inverse trigonometric functions. 72 lecture hours. CSU;UC

MATH 191
Calculus with Analytic Geometry II
4 Units Grade or P/NP
Prerequisite: MATH 190.
Continuation of integral calculus with applications; techniques of integration; sequences and series; analytic geometry; plane curves; parametric equations; and polar coordinates. 72 lecture hours. CSU;UC

MATH 201
Calculus with Analytic Geometry III
4 Units Grade or P/NP
Prerequisite: MATH 191.
Vectors, calculus of functions of more than one variable, partial derivatives, multiple integration, vector calculus, Green's Theorem, Stokes' Theorem, and divergence theorem. 72 lecture hours. CSU;UC

MATH 211
Differential Equations
4 Units Grade or P/NP
Prerequisite: MATH 210.
First and Second Order (Linear and Non-Linear) Differential Equations, with emphasis on modeling applications. Numerical Methods. Basic Linear Algebra. Systems of Linear and Non-Linear Differential Equations and their applications. Application of Linear Algebra to Systems. Power Series Methods. 72 lecture hours, 18 lab hours. CSU;UC

MATH 212
Introduction to Linear Algebra
4 Units
Prerequisite: MATH 191.
An introduction to linear algebra that complements coursework in calculus. Topics include systems of linear equations, matrix operations, determinants, vectors and vector spaces, eigenvalues and eigenvectors and linear transformations. 72 lecture hours. CSU;UC

Motorcycle Technology (Technology and Engineering Department)

These courses prepare students for entry level occupations in motorcycle service diagnosis and repair.

Motorcycle Technology Courses

MOTO 100
Motorcycle Repair I
2 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A basic course in the theory of operation and repair procedures of two- and four-stroke motorcycles and ATVs. The student will gain entry-level skills for the motorcycle repair industry. 18 lecture hours, 54 lab hours.

MOTO 101
Fundamentals of Motorcycle Service, Diagnosis and Repair
5 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Intended for motorcycle technology majors, this class serves as the prerequisite for all motorcycle technology certificate and/or degree-applicable courses. Motorcycles, ATVs and scooters will be explored from the point of view of the service technician. Scientific principles and operation of essential motorcycle technologies are central to the course goal of preparing students for entry into the motorcycle technology core curriculum. Appropriate lab activities in motorcycle inspection, service and repair are included. 72 lecture hours, 54 lab hours. CSU

MOTO 102
Personal Watercraft Repair I
2 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course in the theory and operation of personal watercraft. The student will learn the basic maintenance and repair procedures necessary to gain an entry level position in the watercraft industry. This course may be taken two times. 18 lecture hours, 54 lab hours.

MOTO 103
Personal Watercraft Repair II
2 Units Grade or P/NP
Prerequisite: MOTO 102.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course in practical repair procedures for personal watercraft. The student will learn
advanced repair and troubleshooting procedures necessary to gain employment in the watercraft industry. This course may be taken two times. 18 lecture hours, 54 lab hours.

MOTO 105
Basic Motorcycle Technology
2 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introduction to motorcycle technology, this course will offer an overview of the evolution of the modern motorcycle from the machines of the early 20th century to present. Fundamentals of design and operation of modern motorcycles will be covered along with basic repair procedures and manufacturer-specific maintenance procedures to preserve new vehicle warranty. 18 lecture hours, 54 lab hours.

MOTO 291
Engine Performance Enhancements and Tuning
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The class covers the engine performance enhancements available for motorcycle vehicles. The subject areas covered include stand-alone engine management systems, fuel systems, turbo chargers, superchargers, nitrous oxide, ignition systems, and the use of the chassis dynamometer as a tuning tool. 36 lecture hours, 54 lab hours.

Cooperative Education Courses

MOTO 698A
Cooperative Education
1 Unit
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.

During the summer the student must be enrolled in at least one other class.

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Motorcycle and Personal Watercraft Technology at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

MOTO 698B
Cooperative Education
2 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.

During the summer the student must be enrolled in at least one other class.

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Motorcycle and Personal Watercraft Technology at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

MOTO 698C
Cooperative Education
3 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.

During the summer the student must be enrolled in at least one other class.

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Motorcycle and Personal Watercraft Technology at their place of volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

MOTO 698D
Cooperative Education
4 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.

During the summer the student must be enrolled in at least one other class.

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Motorcycle and Personal Watercraft Technology at their place of volunteer employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

MOTO 699A
Cooperative Education
1 Unit
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.

During the summer the student must be enrolled in at least one other class.

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Motorcycle and Personal Watercraft Technology at their place of volunteer employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

MOTO 699B
Cooperative Education
2 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.

During the summer the student must be enrolled in at least one other class.

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Motorcycle and Personal Watercraft Technology at their place of paid employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.

MOTO 699C
Cooperative Education
3 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.

During the summer the student must be enrolled in at least one other class.

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Motorcycle and Personal Watercraft Technology at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.

MOTO 699D
Cooperative Education
4 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester.

During the summer the student must be enrolled in at least one other class.

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Motorcycle and Personal Watercraft Technology at their place of paid employment or training sites. This course may be taken four times. 300 lab hours arranged per semester.

Medium & Heavy Diesel-Truck Technology
(Technology and Engineering Department)

These course offerings prepare students for entry level occupations in diesel technology, medium and heavy trucks, and provides training needed for advancement within these occupations. Employment positions are available in both the public and the private sector.
### Medium & Heavy Diesel-Truck Technology Courses

**MTRK 105**  
**Diesel and Gasoline Generator Technology**  
2 Units  
Grade or P/NP  
**Strongly recommended:** READ 099 if required by reading placement exam or if required by reading level.  
This course will offer an overview of diesel and gasoline generator technology used in small and medium industries. It will provide students with a basic knowledge of diesel and gasoline generator repair including basic maintenance and systems troubleshooting. This course will also cover necessary requirements and equipment to enter this career field. 18 lecture hours, 36 lab hours.

**MTRK 130**  
**Diesel Tech I**  
11 Units  
**Strongly recommended:** READ 099 if required by reading placement exam or if required by reading level.  
The study of component and system operations related to vehicles that are used in the transportation and construction industry and are powered by diesel engines. Included is a complete survey of the chassis and related components such as steering, brakes, transmissions, and rear and front drives, and power take-off systems to include transfer case drives. This course may be taken two times. 108 lecture hours; 270 lab hours.

**MTRK 190**  
**Introduction to Compressed Natural Gas Vehicles**  
3 Units  
Grade or P/NP  
**Strongly recommended:** READ 099 if required by reading placement exam or if required by reading level.  
This course introduces students to the role, function, and application of compressed natural gas (CNG) as an alternative fuel for today’s internal combustion engine. Propane, methanol, hydrogen, fuel cells, and electric vehicles are also discussed. Course prepares students to take the ASE F1 exam. 54 lecture hours.

**MTRK 230**  
**Diesel Medium/Heavy Truck Technology II**  
11 Units  
The study of the diesel power plant and all systems related to engine operation including cooling, fuel, exhaust, lubrication and filtration. The study will include electrical theory and operation of electrical components that make up the complete power plant necessary for engine and vehicle operations. This course may be taken two times. 108 lecture hours, 270 lab hours.

**MTRK 235**  
**Diesel Rebuilding: Detroit Engine - Series 71 and 92**  
2 Units  
**Strongly recommended:** READ 099 if required by reading placement exam or if required by reading level.  
Includes the theory and operation of the two- and four-stroke cycle diesel engine including the principles and operation of the blower and turbo charger. Complete disassembly and reassembly, current machine shop practices and tooling necessary for reconditioning the complete engine. Engine diagnosis and tune-up will be emphasized. 36 lecture hours, 18 lab hours.

**MTRK 240**  
**Diesel Rebuilding: Cummins Engine 2 Units**  
**Strongly recommended:** READ 099 if required by reading placement exam or if required by reading level.  
The complete disassembly and assembly of a Cummins diesel engine, including machine shop practices and necessary tooling for reconditioning the engine. The theory and function of all related systems necessary for engine operation such as turbo charger, lubrication, fuel and filtration. 36 lecture hours, 18 lab hours.

**MTRK 245**  
**Diesel Rebuilding: Caterpillar Engine 2 Units**  
**Grade or P/NP**  
**Strongly recommended:** READ 099 if required by reading placement exam or if required by reading level.  
The complete disassembly and assembly of a Caterpillar diesel engine, including the machine shop practice and tooling necessary for the reconditioning of the complete engine. The theory and function of all related systems necessary for engine operation such as turbo charger, lubrication, fuel and filtration. 36 lecture hours, 18 lab hours.

**MTRK 265**  
**Basic Heavy Duty Electrical 2 Units**  
**Strongly recommended:** MTRK 100 or 130.  
Also, READ 099 if required by reading placement exam or if required by reading level.  
The course of study to upgrade the diesel mechanic’s skills covering theory, parts and their function, troubleshooting, tools utilized, and electrical systems as applied to the Diesel Technology field. A strong emphasis will be placed on the Digital/Volt/Ohmmeter (DVOM) as a troubleshooting tool. 36 lecture hours, 36 lab hours.

**MTRK 270**  
**Electronic Controls Systems: Detroit Diesel Engine DDEC I, II, III and IV 2 Units**  
**Grade or P/NP**  
**Strongly recommended:** READ 099 if required by reading placement exam or if required by reading level.  
This course focuses on advanced electronic control systems (DDEC I and II) in Detroit diesel engines. Diagnosis and repair of the entire fuel system. The use of computer test equipment for engine diagnosis and performance. 36 lecture hours, 18 lab hours.

**MTRK 271**  
**IS Series Cummins 2 Units**  
**Strongly recommended:** MTRK 130.  
The study of the mechanical and electrical components of the Cummins ISM Diesel engine. There are upgrades from the M-11 Engine which makes this engine more reliable and meeting the new emissions specifications. 18 lecture hours; 54 lab hours.

**MTRK 272**  
**Diesel Engine Troubleshooting 2 Units**  
**Strongly recommended:** MTRK 130.  
Also, READ 099 if required by reading placement exam or if required by reading level.  
This course covers tune-up and troubleshooting of two and four cycle Detroit Diesel, Cummins, and Caterpillar Diesel engines. The air in-let, fuel, and lubrication system will be analyzed for its operation and troubleshooting problems related to them. The use of special tools and gauges will be used to quickly diagnose the problems. No power and smoking conditions will be analyzed. 18 lecture hours, 54 lab hours.

**MTRK 274**  
**Detroit Diesel Series 60 Engine Overhaul 2 Units**  
**Strongly recommended:** MTRK 130.  
Also, READ 099 if required by reading placement exam or if required by reading level.  
The class will provide each student with information on theory and engine overhaul of a Detroit Diesel Series 60 Engine. 18 lecture hours, 54 lab hours.

**MTRK 280**  
**Heavy Duty Brake Systems 2 Units**  
**Grade or P/NP**  
**Strongly recommended:** READ 099 if required by reading placement exam or if required by reading level.  
A course in hydraulic and air braking systems used in heavy duty vehicles and the transportation industry (truck and busing). Included are theory and systems operation and diagnosis. The machine shop
practice and precision tooling used for re-conditioning drums, rotors, valves, compressors, master and slave cylinders and related components will be included as well as anti-lock braking systems. 36 lecture hours, 18 lab hours.

**MTRK 285**  
Allison Transmissions  
2 Units  
Grade or P/NP  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Disassembly and assembly of the Allison heavy duty automatic transmission used on and off road. Includes component function, identification and application in circuits, hydraulic circuit and power flow throughout the transmission. The diagnosis of problem areas is stressed. 36 lecture hours, 18 lab hours.

**Music**  
(Fine and Performing Arts Department)

The roster of alumni from the music department includes conductors, composers, teachers, administrators, performers, in concert, jazz, musical comedy and opera, and members of symphony orchestras. All music majors must be registered every semester in a Citrus College performing group.

**Commercial Courses**

**MUS 129**  
Pop/Rock Ensemble I  
2 Units  
Prerequisite: Audition required.  
Corequisite: MUS 290, 291 or 292.

A course for vocalists and instrumentalists in the techniques from Doo-Wop, Rockabilly, Rhythm and Blues, " Covers" to Classic Rock, Teen Idols and Girl Groups, with a focus on the small ensemble setting. Students will work extensively on these early rock and pop stylings and within the application of a small group, with the intention of public performance. Public performance required. This course may be taken four times. 36 lecture hours, 18 lab hours arranged. CSU

**MUS 131**  
Career Opportunities in the Music Entertainment Industry  
3 Units  
This is a class for students interested in the music entertainment industry. Practices and procedures of artists and performers, record companies, live performance and touring, publishing, management, promotion, artist, radio station, video, and retail sales will be examined. Emphasis will be on prominent guest lecturers from various fields. 54 lecture hours.

**MUS 132**  
Music Performance for Events  
1 Unit  
Prerequisite: Audition.

Music Performance for Events is designed for the student to learn and enjoy the art of performing music for sports events and related functions. This course will incorporate the selection of, and the ability to perform the appropriate material. This course may be taken four times. 72 lab hours.

**MUS 139**  
Pop/Rock Ensemble II  
2 Units  
Prerequisite: Audition.  
Corequisite: MUS 290, 291 or 292.

This is a class for students interested in the application of a small group, with the intention of public performance. Public performance required. This course may be taken four times. 36 lecture hours, 36 lab hours arranged. CSU

**MUS 140**  
Electronic Music I  
2 Units  
Prerequisite: MUS 140.

Basic theory and practice of electronic music synthesis including synthesizer components and electronic sound processing, recording, editing, and mixing techniques. Advanced MIDI applications. 36 lecture hours, 18 lab hours arranged. CSU

**MUS 141**  
Electronic Music II  
2 Units

Advanced theory and practice of electronic music synthesis including analog synthesizer components and electronic sound processing, recording, editing, and mixing techniques. Advanced MIDI applications. 36 lecture hours, 18 lab hours arranged. CSU

**MUS 145**  
Pop Rock and Jazz Performance Styles  
4 Units  
Prerequisite: Audition.  
Corequisite: MUS 290, 291 or 292.

Introductory study and performance of contemporary Pop, Rock, and Jazz styles. This course will focus on the various fusions of these diverse styles; including appropriate rehearsal and performance techniques. This course may be taken four times. 36 lecture hours, 18 lab hours, 108 lab hours arranged. CSU

**MUS 146**  
Pop/Cumbia Ensemble I  
2 Units  
Grade or P/NP  
Prerequisite: Audition.

Corequisite: MUS 290, 291 or 292.

A course for vocalists and instrumentalists in the study, rehearsal, and performance of Cumbia, Vallenato, Merengue, Corridos, and Rancheras and other Central and Interior and South American musical styles (notably excluding Mariachi) with a focus on the medium size (15-20) ensemble setting. Students will explore the rhythm and stylistic idiosyncrasies of this group of Latin American musical styles in sectional and full ensemble settings, with the intention of public performance. Public performance required. This course may be taken four times. 36 lecture hours, 36 lab hours. CSU/UC

**MUS 147**  
Pop/Salsa Ensemble I  
2 Units  
Grade or P/NP  
Prerequisite: Audition.

Corequisite: MUS 290, 291 or 292.

A course for vocalists and instrumentalists in the study, rehearsal, and performance of Salsa, Merengue, Bolero and other Caribbean and Coastal South American musical styles with a focus on the medium size (15-20) ensemble setting. Students will explore the rhythm and stylistic idiosyncrasies of this group of Latin American musical styles in sectional and full ensemble settings, with the intention of public performance. Public performance required. This course may be taken four times. 36 lecture hours, 36 lab hours. CSU/UC

**MUS 150**  
Professional Performance Techniques  
3 Units  
Prerequisite: Audition.

The Professional Performance Techniques for the musician class provides the musician with the necessary fundamentals, to accurately assess a performance setting and make appropriate decisions for its success. The course stresses detailed style analysis in a broad range of musical settings. Logistical necessities will be examined and the course will culminate with musical performances. This course may be taken four times. 18 lecture hours, 108 lab hours.

**MUS 160**  
Popular Piano Styles  
2 Units  
Grade or P/NP

This course acquaints the student with the musical concepts employed by the professional pianist in the commercial music field. Concepts include construction and identification of extended (jazz) chords,
voicing, accompanying, fills, substitutions, and style in view of solo and ensemble playing. This course may be taken four times. 36 lecture hours, 18 lab hours.

MUS 162 Songwriting
2 Units Grade or P/NP
Prerequisite: MUS 112.
This course acquaints the student with commercial songwriting techniques. Included are developing an idea, writing a melody, melodic expansion, chord progressions, form and light orchestration. This course may be taken four times. 36 lecture hours, 18 lab hours.

MUS 172 Styles, Techniques, and the "Soul" of Popular Singing
2 Units Grade or P/NP
Strongly recommended: Audition.
Development of basic techniques and skills appropriate for singing various styles of commercial and popular music. Emphasis will be on fundamental singing techniques, song interpretation, and the joy of performing. Some music technology and the business of music will also be discussed. Solo and ensemble (back-up) singing performances are included. This course may be taken four times. 36 lecture hours, 18 lab hours arranged.

MUS 209 Musical Theatre Academy Production
4 Units Grade or P/NP
Prerequisite: Audition.
An in-depth survey of the skills necessary for the performer in a live musical theatre production. Emphasis on the audition process, script analysis, role preparation, theatre and rehearsal etiquette and rehearsal technique culminating in a live, full-length fully produced musical. This course may be taken four times. 36 lecture hours, 126 lab hours. CSU; UC

MUS 211 Citrus Singers Tour Ensemble (Pop)
4 Units
Prerequisite: Audition.
An advanced course for the vocal performance major. Integration of advanced pop vocal techniques, dance and body movement, and tour exposure in a professional quality performance/tour setting. This course may be taken four times. 54 lecture hours, 54 lab hours. CSU; UC

MUS 212 Citrus Singers Tour Ensemble (Classical)
4 Units
Prerequisite: Audition.
An advanced course for the vocal performance major. Advanced classical vocal techniques in a professional quality performance/tour setting. This course may be taken three times. 54 lecture hours, 54 lab hours. CSU; UC

MUS 213 Professional Performance Techniques (Vocal)
3 Units Grade or P/NP
Prerequisite: Audition.
An advanced course for the vocal performance major. Advanced vocal techniques in a professional-quality setting. Emphasis on rehearsal techniques, total presentation, body movement, and audience rapport. This course may be taken four times. 36 lecture hours, 54 lab hours.

MUS 214 Musical Theatre Techniques
3 Units Grade or P/NP
This introductory course provides an overview of the techniques necessary for the performer in a live musical theatre production. Topics include history of American musical theatre, audition technique, rehearsal and performance techniques, and methods of production evaluation. This course may be taken four times. 36 lecture hours, 18 lab hours, 36 lab hours arranged. CSU; UC

MUS 215 Musical Theatre Production
4 Units Grade or P/NP
Prerequisite: Audition.
Live musical theatre production. Students will function as principles and ensemble members in a fully produced musical. The course is also open to qualified musicians and technicians who wish to participate in production. This course may be taken four times. 36 lecture hours, 108 lab hours. CSU; UC

MUS 220 Musical Theatre Academy Techniques
2 Units Grade or P/NP
Prerequisite: Audition.
Musical Theatre Academy Techniques course provides students with the vocal training, dance technique, and acting fundamentals needed to perform. The course culminates in a final showcase which allows each student the training, experience, and exposure of performing for a live audience. This course may be taken four times. 36 lecture hours, 36 lab hours. CSU

MUS 224 Musical Theatre Workshop Production
4 Units Grade or P/NP
Prerequisite: Audition.
A practical overview of, and creative workshop on, the process and skills of developing, producing, and performing a musical. Emphasis on script analysis, character development, production themes, and vocal production, culminating in a live, full-length, fully-produced musical. This course may be taken four times. 36 lecture hours, 108 lab hours. CSU

MUS 228 Jazz Ensemble Tour
7 Units
Prerequisite: Audition.
This course prepares the student for a unique instrumental ensemble experience through classroom instruction, laboratory training, and performance. Emphasis on solos as well as ensemble study of jazz compositions, combined with an in-depth travel experience abroad. Public performance required. This course may be taken four times. 72 lecture hours, 252 lab hours. CSU; UC

MUS 240 Electronic Music III
2 Units Grade or P/NP
Prerequisite: MUS 141.
Advanced theory and practice of electronic music synthesis including digital synthesizer components and electronic sound processing, recording, editing, and mixing techniques. Advanced MIDI applications. 36 lecture hours, 18 lab hours. CSU

MUS 245 Pop, Rock, and Jazz Performance Styles II
4 Units Grade or P/NP
Prerequisite: MUS 145 and Audition.
A more in-depth study and performance of contemporary Pop, Rock, and Jazz styles. This course may be taken four times. 36 lecture hours, 18 lab hours, 108 lab hours arranged. CSU

MUS 290 Applied Music
2 Units
Prerequisite: Audition.
Corequisite: Concurrent enrollment in appropriate Citrus College Ensemble.
A workshop class in applied music and a private one-half hour lesson per week. The student is required to enroll and participate in a Citrus performing music ensemble class and to attend a weekly concert hour recital. This course may be taken four times. 18 lecture hours, 108 lab hours arranged. CSU; UC

MUS 291 Applied Music/Individual Instruction Commercial (Pop)
2 Units
Prerequisite: Audition.
Corequisite: Concurrent enrollment in appropriate Citrus College Ensemble.
A workshop class in applied music and a private one-half hour lesson per week, emphasis on classical techniques. The student is required to enroll and participate in a Citrus performing music ensemble class and to attend and participate in a weekly concert hour recital. This course may be taken four times. 18 lecture hours, 108 lab hours. CSU; UC
### History & Theory Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 292</td>
<td>Applied Music/Individual Instruction (Pop)</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 100</td>
<td>Musicianship</td>
<td>2</td>
<td>Corequisite: MUS 102.</td>
<td>An introductory class for the music major. Practice and skill development in melodic and rhythmic dictation, intervals, and sight-singing. Required of all music majors. 36 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>MUS 101</td>
<td>Musicianship</td>
<td>2</td>
<td>Prerequisites: MUS 100 and 102. Corequisite: MUS 103.</td>
<td>Other: Recommendation by instructor(s) of music courses which require knowledge of sightsinging. Continuation of materials and skills developed in Music 100. Continued practice and skill development in melodic and rhythmic dictation, intervals, and sight-singing. Required of all music majors. 36 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>MUS 102</td>
<td>Harmony</td>
<td>3</td>
<td>Corequisites: MUS 100.</td>
<td>An introductory class in music theory for the music major. Study of scales, intervals, chord types, and harmonic progression. Required of all music majors. 54 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>MUS 103</td>
<td>Harmony</td>
<td>3</td>
<td>Prerequisite: MUS 102.</td>
<td>Continuation of materials and skills developed in Music 102. Additional study and analysis of scales, intervals, chord types and harmonic progression. Required of all music majors. 54 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>MUS 110</td>
<td>History of Music I</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 111</td>
<td>History of Music II</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 112</td>
<td>Music Fundamentals</td>
<td>3</td>
<td>Grade or P/NP</td>
<td></td>
</tr>
<tr>
<td>MUS 113</td>
<td>History of Rock and Roll</td>
<td>3</td>
<td></td>
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<tr>
<td>MUS 114</td>
<td>Music Appreciation</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>MUS 170</td>
<td>Sight Reading for the Studio</td>
<td>3</td>
<td>Prerequisite: Audition.</td>
<td></td>
</tr>
<tr>
<td>MUS 200</td>
<td>Musicianship</td>
<td>2</td>
<td>Prerequisites: MUS 101 and 103. Corequisite: MUS 202.</td>
<td>Melodic and rhythmic dictation and sight singing. Identification of intervals, chord qualities, scales, phrases and harmonic function. Required for transferring music majors. 36 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>MUS 201</td>
<td>Musicianship</td>
<td>2</td>
<td>Prerequisites: MUS 200 and 202. Corequisite: MUS 203.</td>
<td>A continuation of MUS 200. This course will include more challenging rhythmic, melodic, and harmonic dictation and solfege. Required for transferring music majors. 36 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>MUS 202</td>
<td>Harmony</td>
<td>3</td>
<td>Prerequisite: MUS 103.</td>
<td>Continuation of first year’s study, including seventh chords, secondary dominants, modality, harmonic structure of the phrase, harmonization of a given part, harmonic rhythm, irregular resolutions of secondary dominants, analysis of melodies, short works for piano, chorales, and songs. Required of all transferring music majors. 54 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>MUS 203</td>
<td>Harmony</td>
<td>3</td>
<td>Prerequisites: MUS 200 and 202. Corequisite: MUS 201.</td>
<td>Continuation of first year’s study, including seventh chords, secondary dominants, modality, harmonic structure of the phrase, harmonization of a given part, harmonic rhythm, irregular resolutions of secondary dominants, analysis of melodies, short works for piano, chorales, and songs. Required of all transferring music majors. 54 lecture hours. CSU;UC</td>
</tr>
<tr>
<td>MUS 218</td>
<td>History of Jazz</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS 225</td>
<td>Introduction to American Music</td>
<td>3</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td></td>
</tr>
</tbody>
</table>
A survey of American music from the seventeenth century until the present. Units include the Colonial music, spirituals, and gospel music, parlor songs, the ragtime and jazz era, the rise of classical music, music for the stage and screen, the blues, folk and protest music, country and western, and the birth of rock and roll. 54 lecture hours. CSU; UC

**Instrumen tal Courses**

**MUS 105**
**Elementary Piano I**
**2 Units**
For the beginning music student or non-music major. Covers all basic elements in elementary piano, including music reading, rhythm studies, technique, and scales. 36 lecture hours. CSU; UC

**MUS 106**
**Elementary Piano II**
**2 Units**
Prerequisite: MUS 105. Continuation of skills and techniques learned in MUS 105. Emphasis on reading skills, major scales, compound meters, ensemble playing, harmonization, and elementary classical keyboard literature. 36 lecture hours. CSU; UC

**MUS 107**
**Jazz Ensemble**
**4 Units**
Prerequisite: Audition.
Corequisite: MUS 290, 291, or 292. Study and performance of jazz and big band music. This course provides an opportunity to learn the techniques applicable to the large ensemble. Public performance required. This course may be taken four times. 36 lecture hours, 126 lab hours. CSU; UC

**MUS 108**
**Woodwind Techniques**
**1 Unit**
Prerequisite: Audition.
Selected intermediate and advanced studies to further knowledge and tonal proficiencies of musicians. Study of solo literature from different periods of music chosen to suit the student's performance level. Different periods of performance practices are explored. This course may be taken four times. 54 lab hours. CSU; UC

**MUS 109**
**Brass and Percussion Techniques**
**1 Unit**
Prerequisite: Audition.
Selected intermediate and advanced studies to further technique and tone proficiency of musicians. Study of solo literature from different periods of music chosen to suit the student's performance level. This course may be taken four times. 54 lab hours. CSU; UC

**MUS 122**
**Beginning Guitar I**
**2 Units**
Stringing, tuning, fingering, playing techniques, notation, chords and chord progression, reading guitar music, playing simple melodies and accompaniment. 36 lecture hours. CSU; UC

**MUS 123**
**Beginning Guitar II**
**2 Units**
Prerequisite: MUS 122 or Audition.
This course continues the development of skills begun in MUS 122. In addition, the following areas are covered: bare chords, additional accompaniment techniques, major and minor scale patterns in first position. 36 lecture hours. CSU; UC

**MUS 124**
**Intermediate Guitar II**
**2 Units**
Prerequisite: MUS 123 or Audition.
Instruction in scales, chords, and arpeggios in all keys and positions. Improvising, accompanying, sight reading, transposing and performing of popular and classical styles. 36 lecture hours. CSU; UC

**MUS 125**
**Intermediate Guitar I**
**2 Units**
Prerequisite: MUS 124 or Audition.
This course is a continuation of the first semester intermediate guitar (MUS 124). Course includes solo guitar playing techniques and ensemble playing. 36 lecture hours. CSU; UC

**MUS 137**
**Standard Percussion Instrumentation/Technique**
**1 Unit**
This course introduces appropriate exercises in rhythm, technique and consistency. Special selected studies include specific techniques and rhythm patterns which are chosen to advance the students proficiency on ethnic percussion instruments. Study of instruments and rhythms from Latin American, Middle Eastern, and other ethnic cultures. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU; UC

**MUS 138**
**World Percussion Instrumentation/Technique**
**1 Unit**
This course for the percussionist introduces appropriate exercises in rhythm, technique, and consistency. Special selected studies including specific techniques and rhythmic patterns are chosen to advance the student's proficiency on ethnic percussion instruments. Study of instruments and rhythms from Latin America, Middle Eastern, and other ethnic cultures. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU; UC

**MUS 152**
**Jazz Combos**
**1 Unit**
Prerequisite: Audition.
Corequisite: MUS 290, 291, or 292. Students will work extensively on improvisation and small group techniques. The study of standard be-bop tunes and their application in the small group will be covered. This class will be divided into small ensembles. Public performance required. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU; UC

**MUS 153**
**Chamber Jazz**
**4 Units**
Grade or P/NP
Prerequisite: Audition.
Corequisites: MUS 108 or 109 and 290 or 291 or 292. Advanced study and performance of traditional and contemporary jazz. Jazz and world music styles along with their influence will be covered. Public performance and the possibility of touring are required. This course may be taken four times. 36 lecture hours, 18 lab hours, 108 lab hours arranged. CSU; UC

**MUS 154**
**Jazz Improvisation**
**3 Units**
Grade or P/NP
This is a class for music majors and performing artists. The theory, technique, and practice of jazz improvisation in a variety of styles will be examined. This course may be taken four times. 54 lecture hours, 18 lab hours arranged. CSU; UC

**MUS 155**
**The Professional Pianist**
**2 Units**
Grade or P/NP
Prerequisite: Audition.
Exploration of collaborative keyboard skills required of a professional pianist. An intermediate-level course in classical and popular, vocal, and instrumental collaboration, and sight-reading techniques. 36 lecture hours.

**MUS 157**
**Percussion Ensemble I**
**1 Unit**
Grade or P/NP
Prerequisite: Audition or MUS 137.
A course for percussionists in the study, rehearsal, and performance classical, modern and novelty percussion ensemble chamber music with a focus on the small to medium size (4-16) ensemble setting. Students will explore the rhythmic and stylistic idiosyncrasies of this group of musical styles in sectional and full ensemble settings, with the intention of public performance. Public performance required. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU
MUS 158  World Percussion Ensemble I  
1 Unit  Grade or P/NP  
Prerequisite: Audition or MUS 138.  
A course for percussionists in the study, rehearsal, and performance percussion ensemble chamber music from Latin American, Middle Eastern and various other ethnic cultures with a focus on the small to medium size (4-16) ensemble setting. Students will explore the rhythmic and stylistic idiosyncrasies of this group of musical styles in sectional and full ensemble settings, with the intention of public performance. Public performance required. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU

MUS 161  Keyboard Skills for the Music Major  
3 Units  Grade or P/NP  
A keyboard skills class for music majors. Covers all basic elements of piano; includes skills that are specifically essential for musicians, such as: accompaniment, score reading, harmonicization, sighth-reading, keyboard, harmony, and ensemble playing. 54 lecture hours. CSU

MUS 205  Intermediate Piano I  
2 Units  
Prerequisite: MUS 106 or Audition.  
Continued development of essential keyboard skills. This course emphasizes improvisation, melodic harmonization, and reading music at sight. 36 lecture hours. CSU

MUS 206  Intermediate Piano II  
2 Units  
Prerequisite: MUS 205 or Audition.  
Continued development of essential keyboard skills learned in Intermediate Piano I. This course emphasizes working with lead sheets, interpretation of chord symbols, advanced scale types, and transcription. 36 lecture hours. CSU

MUS 207  Laboratory Band  
2 Units  
Prerequisite: Audition.  
Corequisites: MUS 108 or 109 and 290 or 291 or 292.  
Introductory study and performance of jazz and commercial music. Topics include scales, chords, patterns, improvisation and development of musical style. Public performance required. This course may be taken four times. 36 lecture hours, 126 lab hours. CSU

MUS 208  Studio Orchestra  
4 Units  
Prerequisite: Audition.  
Corequisites: MUS 290 or 291 or 292.  
Study and performance of commercial musical styles including Broadway show styles, variety show, stage productions, and recording session. Public and studio performance required. This course may be taken four times. 36 lecture hours, 54 lab hours, 72 lab hours arranged. CSU

MUS 216  Brass Choir I  
3 Units  
Prerequisite: Audition.  
Corequisites: MUS 290, 291 or 292.  
Study and performance of brass ensemble music. This course provides an opportunity to learn performance practices of brass music in various styles through the medium of a large brass ensemble. Literature from the Renaissance through the Classical period will be covered. Public performance required. This course may be taken four times. 36 lecture hours, 54 lab hours. CSU

MUS 217  Chamber Winds I  
4 Units  Grade or P/NP  
Prerequisite: Audition.  
Study of band literature from the Renaissance to Classical Era. Working soloists and guest artists will be emphasized in addition to the study of different performance practices. Public performance required. This course may be taken four times. 36 lecture hours, 108 lab hours. CSU

MUS 221  Drum and Bugle Corps  
2 Units  Grade or P/NP  
Prerequisite: Audition.  
Students will be part of a performing drum and bugle corps, performing in preconceived and free-form formations and routines, playing brass and percussion instruments, with accompanying visual units appropriate to the ensemble. This course may be taken four times. 18 lecture hours, 54 lab hours. CSU

MUS 223  Handbell Ensemble  
2 Units  Grade or P/NP  
Corequisite: MUS 116.  
An advanced course for the music major. This course provides the skills of coordination, dexterity and musicianship through the use of 5-octave English hand bells. Emphasis is placed on skills necessary for the development of professional quality musical performance in an ensemble setting. This course may be taken four times. 9 lecture hours, 54 lab hours. CSU

MUS 226  Brass Choir II  
3 Units  
Prerequisite: Audition.  
Corequisites. MUS 290, 291 or 292.  
Study and performance of contemporary brass ensemble music. This course provides an opportunity to learn performance practices of brass music in various styles through the medium of a large brass ensemble. Literature from the Romantic Era to the 20th Century will be covered. Public performance required. This course may be taken four times. 36 lecture hours, 54 lab hours. CSU

MUS 227  Chamber Winds II  
4 Units  Grade or P/NP  
Study of band literature from the Romantic Era to the 20th Century. Working soloists and guest artists will be emphasized in addition to the study of different performance practices. Public performance required. This course may be taken four times. 36 lecture hours, 108 lab hours. CSU

MUS 229  Summer Instrumental Music Academy  
3 Units  
The Summer Instrumental Music Academy provides the beginning musician with the necessary fundamentals of music reading ability, historical framework and basic technique on the student’s chosen instrument. The course culminates with a summer concert, which provides students with the training and experience to play successfully in a variety of concert settings. This course may be taken four times. 18 lecture hours, 108 lab hours. CSU

MUS 234  Wind Symphony I  
4 Units  Grade or P/NP  
Prerequisite: Audition.  
The study and performance of advanced wind band literature, with an emphasis on the exploration of traditional wind and percussion music and the development of the highest standards of personal and musical professionalism. This course may be taken four times. 36 lecture hours, 18 lab hours, 90 lab hours arranged. CSU

MUS 235  Advanced Piano I  
2 Units  Grade or P/NP  
Prerequisite: MUS 205 or Audition.  
This course continues the development of skills begun in MUS 105 and 106 with emphasis on increased proficiency. Included in the repertoire are moderately difficult compositions representative of selected stylistic periods of piano literature. This course, or a similar background, is required for music majors. 36 lecture hours. CSU

MUS 236  Advanced Piano II  
2 Units  Grade or P/NP  
Prerequisite: MUS 235 or Audition.  
This course is a continuation of the first semester of second year piano and emphasizes the further development of those skills previously set forth. This course, or a similar background, required of all music majors. 36 lecture hours. CSU
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 244</td>
<td>Wind Symphony II</td>
<td>4</td>
<td></td>
<td>Study and performance of advanced wind band literature, with an emphasis on the exploration of contemporary wind and percussion music. This course may be taken four times. 36 lecture hours, 18 lab hours, 90 lab hours arranged. CSU; UC</td>
</tr>
<tr>
<td>MUS 252</td>
<td>Fusion Ensemble I</td>
<td>1</td>
<td></td>
<td>Study will work extensively on contemporary jazz styles including fusion of rock and jazz elements, post Be-Bop and avant garde styles. This class will be divided into small ensembles. Public performance required. This course may be taken four times. 48 lab hours, 24 lab hours arranged. CSU; UC</td>
</tr>
</tbody>
</table>

**Vocal Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 115</td>
<td>Voice</td>
<td>2</td>
<td></td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Special attention given to beginners with emphasis on basic elements necessary for good singing. This course may be taken four times. 36 lecture hours, 18 lab hours arranged. CSU; UC</td>
</tr>
<tr>
<td>MUS 116</td>
<td>Chamber Singers I</td>
<td>4</td>
<td></td>
<td>Prerequisite: Audition. This course includes the study and performance of composition for the mixed choral ensemble. Includes compositions of the Baroque, Classic, and Romantic style period. Public performance required. This course may be taken four times. 36 lecture hours, 126 lab hours. CSU; UC</td>
</tr>
<tr>
<td>MUS 117</td>
<td>Vocal Ensemble I</td>
<td>3</td>
<td></td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Recommended for all students interested in learning and performing repertoire for the small vocal ensemble. Includes standard vocal literature for various combinations of voices with intensive preparation in choral techniques for public concerts. Public performance required. This course may be taken four times. 36 lecture hours, 54 lab hours. CSU; UC</td>
</tr>
<tr>
<td>MUS 118</td>
<td>Concert Choir I</td>
<td>3</td>
<td></td>
<td>Grade or P/NP Open to all students. Standard choral literature studied; special attention is given to choral tone production, phrasing, and interpretation. Participation in public performances is required. This course may be taken four times. 36 lecture hours, 18 lab hours, 36 lab hours arranged. CSU; UC</td>
</tr>
<tr>
<td>MUS 119</td>
<td>Concert Choir II</td>
<td>3</td>
<td></td>
<td>Grade or P/NP A more in-depth study of standard choral literature: special attention is given to tone productions, phrasing, and interpretation. Participation in public performances is required. This course may be taken four times. 18 lab hours, 36 lab hours arranged. CSU; UC</td>
</tr>
<tr>
<td>MUS 120</td>
<td>Opera Workshop</td>
<td>2</td>
<td></td>
<td>Prerequisite: Audition. Training and performance in solos, trios and small ensembles from the light opera and operatic repertoire. Introduction to standard literature, languages/diction, staging and performance of this repertoire in scenes or in full opera productions. This course may be taken four times. 18 lecture hours, 54 lab hours. CSU; UC</td>
</tr>
<tr>
<td>MUS 121</td>
<td>Chamber Chorale</td>
<td>3</td>
<td></td>
<td>Prerequisite: Audition. This course prepares the student for more in-depth ensemble experience. Emphasis on study and performance of classical and pop compositions for small vocal ensembles. Public performances are required. This course may be taken four times. 36 lecture hours, 54 lab hours. CSU; UC</td>
</tr>
<tr>
<td>MUS 126</td>
<td>Chamber Singers II</td>
<td>4</td>
<td></td>
<td>Prerequisite: Audition. This course includes the study and performance of composition for the mixed choral ensemble. Primary focus is on compositions of the contemporary style period. Public performance required. This course may be taken four times. 36 lecture hours, 126 lab hours. CSU; UC</td>
</tr>
<tr>
<td>MUS 210</td>
<td>Intermediate Voice</td>
<td>2</td>
<td></td>
<td>Prerequisite: MUS 115 or audition. Vocal exercises, analysis, and song memorization for the development of skill in performing literature for the solo voice. This course may be taken four times. 36 lecture hours, 18 lab hours arranged. CSU; UC</td>
</tr>
<tr>
<td>MUS 211</td>
<td>Women’s Tour Ensemble</td>
<td>4</td>
<td></td>
<td>Grade or P/NP Prerequisite: Audition. This course prepares the student for a unique ensemble experience through classroom instruction, laboratory training, and performance. Emphasis on solo as well as ensemble study and performance of vocal compositions combined with an in-depth travel experience. Public performance required. This course may be taken four times. 54 lecture hours, 54 lab hours. CSU; UC</td>
</tr>
<tr>
<td>MUS 220</td>
<td>Chamber Singers I</td>
<td>4</td>
<td></td>
<td>Prerequisite: Audition. Recommended for all male students interested in gaining knowledge of repertoire for the small men’s vocal ensemble. Intensive preparation of choral literature for public concerts. Performance required. May be taken four times. 36 lecture hours, 54 lab hours. CSU; UC</td>
</tr>
<tr>
<td>MUS 221</td>
<td>Women’s Ensemble I</td>
<td>4</td>
<td></td>
<td>Grade or P/NP Prerequisite: Audition. This course prepares the student for in-depth women’s ensemble performance. Emphasis on study and performance of vocal literature. CSU; UC</td>
</tr>
<tr>
<td>MUS 222</td>
<td>Women’s Ensemble II</td>
<td>4</td>
<td></td>
<td>Grade or P/NP Prerequisite: Audition. Recommended for all female students interested in gaining knowledge of repertoire for the small women’s vocal ensemble. Intensive preparation of choral literature for public concerts. Performance required. May be taken four times. 36 lecture hours, 54 lab hours. CSU; UC</td>
</tr>
<tr>
<td>MUS 242</td>
<td>Women’s Ensemble II</td>
<td>4</td>
<td></td>
<td>Grade or P/NP Prerequisite: Audition. This course prepares the student for in-depth women’s ensemble performance. Emphasis on study and performance of vocal literature. CSU; UC</td>
</tr>
</tbody>
</table>
Natural History
(Physical and Natural Sciences Department)

Natural History Courses

NAT 180A
Natural History Series - Deserts A
2 Units
Grade or P/NP

**Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.**

A field course where the topography, climate, geology, ecology, life zones, wildlife, plant life, and human history of the desert region will be covered. Possible locations of interest but not restricted to include Death Valley, high desert, Anza Borrego-Salton Basin, Western Colorado Plateau, Eastern Colorado Plateau, Southeastern Arizona, Trans-Pecos or Baja California. There will be three to ten days of class depending in the region visited. A transportation fee may be assessed. 36 lecture hours. CSU

NAT 180B
Natural History Series - Deserts B
3 Units
Grade or P/NP

**Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.**

A field course where the topography, climate, geology, ecology, life zones, wildlife, plant life, and human history of the desert region will be covered. Possible locations of interest but not restricted to include Death Valley, high desert, Anza Borrego-Salton Basin, Western Colorado Plateau, Eastern Colorado Plateau, Southeastern Arizona, Trans-Pecos or Baja California. There will be three to ten days of class depending in the region visited. A transportation fee may be assessed. 54 lecture hours. CSU

NAT 181A
Natural History Series - Coastal Mountains, Coastlines, Tropical Regions and Islands - A
2 Units
Grade or P/NP

A field course where the topography, climate, geology, ecology, life zones, wildlife, plant life, and human history of the region will be covered. Possible locations of interest include, but are not restricted to San Gabriel Mountains, southern, central and northern California Coastlines, Hawaiian Islands, Channel Islands, Oregon Coast, Galapagos Islands, Costa Rica or Belize. There will be three to ten days of class depending in the region visited. A transportation fee may be assessed. 36 lecture hours. CSU

NAT 181B
Natural History Series - Coastal Mountains, Coastlines, Tropical Regions and Islands - B
3 Units
Grade or P/NP

A field course where the topography, climate, geology, ecology, life zones, wildlife, plant life, and human history of the region will be covered. Possible locations of interest include, but are not restricted to San Gabriel Mountains, southern, central and northern California Coastlines, Hawaiian Islands, Channel Islands, Oregon Coast, Galapagos Islands, Costa Rica or Belize. There will be three to ten days of class depending in the region visited. A transportation fee may be assessed. 54 lecture hours. CSU

NAT 182A
Natural History Series - Inland Mountains, Valleys and Alaska
2 Units
Grade or P/NP

A field course where the topography, climate, geology, ecology, life zones, wildlife, plant life, and human history of the region will be covered. Possible locations of interest but not restricted to include Sierra Nevada, Owens Valley, San Andreas Fault Region, Cascades, Banff Jasper, Alaska, and Rio Grand Valley. There will be three to ten days of class depending in the region visited. A transportation fee may be assessed. This course may be taken up to four times. 36 lecture hours. CSU

NAT 182B
Natural History Series - Inland Mountains, Valleys and Alaska
3 Units
Grade or P/NP

A field course where the topography, climate, geology, ecology, life zones, wildlife, plant life, and human history of the region will be covered. Possible locations of interest but not restricted to include Sierra Nevada, Owens Valley, San Andreas Fault Region, Cascades, Banff Jasper, Alaska, and Rio Grand Valley. There will be three to ten days of class depending in the region visited. A transportation fee may be assessed. This course may be taken up to four times. 54 lecture hours. CSU

Nursing Courses
(Health Sciences Department)

NRS 100
Introduction to Health Occupations
3 Units

**Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.**

Fundamental skills needed for health related occupations. Includes medical terminology, medical math, the application of computers to health care, techniques and learning tools to evaluate scientific readings, field study and exposure to health career opportunities. Offered for Grade or P/NP grading only. 36 lecture hours, 54 lab hours.

NRS 101
Nurse Assistant
5 Units

**Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.**

Preparation of individuals to provide safe and proper nursing care and home care services to the elderly, ill, and infirm. Meets criteria necessary for State certification. 18 lecture hours, 54 lab hours.

NRS 157
Medical Terminology - Spanish
2 Units
Grade or P/NP

**Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.**

This course will prepare the health care provider to learn to improve Medical Spanish in a simplified manner in order to assist the Spanish speaking person in a medical situation. It will provide everyday" language rather than literary Spanish. Prior course in Spanish not required. 36 lecture hours."
registered nurse program. 54 lecture hours.

**NRS 260**
**Drugs and Solutions**
3 Units
A review of basic mathematics, drug formula calculations, and updated drug information. 54 lecture hours.

**NRS 263**
**Nursing Supervision**
3 Units
This course is planned to prepare the LVN or RN for nursing leadership roles in areas such as extended care and nursing home facilities. Should be a licensed vocational nurse or have completed a vocational nursing program. 54 lecture hours.

**Registered Nursing**
(Health Sciences Department)

Citrus College offers a program designed to meet the requirements for licensure by the California Board of Registered Nursing. It is designed to qualify the student for the licensure examination and entry into practice as a Registered Nurse. Additionally, completion of the Associate in Science Degree in Nursing prepares a student to transfer to a four-year institution for completion of a baccalaureate degree. The curriculum follows the Program Philosophy and Conceptual Nursing Framework. Advanced placement in the program may be granted to those students with certain prior vocational nursing, or registered nursing education or equivalent.

**Registered Nursing Courses**

**NRS 190**
**Foundations of Nursing**
4 Units
Prerequisites: BIO 200, 201, 220 or equivalents and admission to the ADN program.
Corequisites: RNRS 191 and 192. The first course in the nursing sequence, students are introduced to the applications of critical thinking and the nursing process needed to provide basic care to clients in a variety of community, long term and acute care settings. Emphasis is on promoting optimum health across the health-illness continuum. Clinical experiences provide the opportunity to practice basic skills and include campus laboratory and experiences in community settings. 36 lecture hours, 108 lab hours.

**NRS 191**
**Introduction to Medical/Surgical Nursing I**
5 Units
Prerequisites: BIO 200, 201 and 220. Corequisites: RNRS 190 and 192. Introduction to concepts and practices as they relate to the non-critical young adult through geriatric adult in the medical-surgical environment. Through utilization of the nursing process, the student will begin to recognize alterations in functioning or illness and formulate age-appropriate nursing interventions. Selected psychomotor skills associated with the basic needs, medication administration and intravenous therapy will be studied and practiced. Introduction to Medical-Surgical Nursing I introduces the first year nursing student to concepts and practices as they related to the adult patient in the Medical-Surgical environment. 36 lecture hours, 162 lab hours.

**NRS 192**
**Pharmacology for Nurses**
2 Units
Prerequisites: BIO 200, 201, 220 or equivalents and admission to the ADRN Program.
Corequisites: RNRS 190 and 191. The course introduces students to basic understandings of the interaction between drugs and living systems and prepares students for system application of drug therapy throughout the remainder of the program. The course includes instruction in drug classes and schedules, principles of drug administration, pharmacokinetics, pharmacodynamics across the life span, and legal and ethical issues related to drug administration. 36 lecture hours.

**NRS 193**
**Pediatric Nursing**
3.5 Units
Prerequisites: RNRS 190, 191, 192. Corequisites: RNRS 194, 195.
This course focuses on integration and application of the nursing process as it relates to the nursing care of children and their families. Emphasis is on the concepts and skills related to age and development-appropriate family centered care. Clinical experiences will provide opportunities for students to participate in therapeutic activities in a variety of pediatric settings. 36 lecture hours, 81 lab hours.

**NRS 194**
**Obstetrics/Maternity Nursing**
3.5 Units
Prerequisites: RNRS 190, 191, 192. Corequisites: RNRS 193, 195.
This course will enable the student to attain knowledge and skills necessary to provide safe, effective, culturally sensitive physiological care using the nursing process and family centered approach for childbearing clients and their families. Clinical experiences will provide opportunities for students to participate in therapeutic activities during antepartum, intrapartum, and postpartum periods; as well as the care and monitoring of the newborn. 36 lecture hours, 81 lab hours.

**NRS 195**
**Beginning Medical/Surgical Nursing II**
5 Units
Prerequisites: RNRS 190, 191, 192. Corequisites: RNRS 193, 194.
Medical Surgical Nursing II develops the first years nursing student's knowledge and skills as they relate to the adult non-critical moderately complex medical-surgical patient. Through utilization of the nursing process, the student will recognize alterations in functioning or illness and formulate age-appropriate nursing interventions. Psychomotor skills associated with moderately complex needs, medication administration and intravenous therapy will be studied and practiced. The impact of multiple nursing diagnoses on patient outcomes will be introduced. 45 lecture hours, 135 lab hours.

**NRS 200**
**Role Transition: LVN to RN**
3 Units
Prerequisites: Current licensure in California as a Licensed Vocational Nurse; BIO 200, BIO 201 and BIO 220 or equivalents. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course is designed to assist the LVN in transitioning from the LVN role to the expected role of the ADN student. Course content focuses on educational preparation for nursing, competencies expected of the graduate, critical thinking, communication, physical assessment, legal/ethical concerns and study skills. The on-campus lab provides opportunity for students to validate nursing skill and practice physical assessment skills. 36 lecture hours, 54 lab hours.

**NRS 201**
**Medical-Surgical Nursing III**
5 Units
Prerequisites: RNRS 193, 194, 195 or 200; OR current standing as a LVN in California and the successful completion of RNRS 200 (Role transition: LVN to RN).
Corequisite: RNRS 203. This course examines the nursing care of selected individuals throughout the lifespan who are experiencing complex alterations in wellness involving multiple systems. Care of clients experiencing a high-risk pregnancy and high-risk newborns is also included. Clinical experiences in local health care agencies and computerized simulation manikins and scenarios provide students opportunity to apply theoretical concepts to actual care of clients. 45 lecture hours, 135 lab hours.
RNRS 203 
Mental Health-Psychiatric Nursing 
3 Units 
Prerequisites: RNRS 193, 194, 195 or 200; OR current standing as a LVN in California and the successful completion of HS 200 SLOs. 
Corequisite: RNRS 201. 
This course presents the principles of mental health and the social, economic, cultural and physiological factors that predispose a person to dysfunctional human behavior. Emphasis is placed on the therapeutic role of the nurse in promotion, preventing, maintaining and restoring individuals to optimal mental well-being. Concepts of therapeutic communication, age related concerns, treatment modalities, and delivery of mental health services are included. Clinical laboratory experiences are provided in community care facilities. 27 lecture hours, 81 lab hours.

RNRS 251 
Medical-Surgical Nursing IV 
6 Units 
Prerequisites: RNRS 201 and 203. 
Corequisites: RNRS 252 and 290. 
This course is a continuation of the nursing care of selected individuals throughout the life span who are experiencing complex alterations in wellness involving multiple systems. Care of clients experiencing multi-system failure and severe trauma is also included. Clinical experiences in local health care agencies provide students opportunity to apply theoretical concepts to actual care of patients. 54 lecture hours, 162 lab hours.

RNRS 252 
Leadership for Professional Nursing Practice 
2 Units 
Prerequisites: RNRS 201 and 203. 
Corequisites: RNRS 251 and 290. 
This course socializes students into the graduate registered nurse role. It focuses on the exploration and analysis of contemporary nursing practice, current trends, and issues impacting nursing care delivery. Advanced leadership and management concepts are discussed as part of the nursing role. Clinical experiences will be provided in Nursing 251. 36 lecture hours.

RNRS 290 
Gerontological Nursing 
2 Units 
Prerequisites: RNRS 201 and 203. 
Corequisites: RNRS 251 and 252. 
This course provides knowledge regarding the care of geriatric clients, including facts and theories of aging and cultural perspectives as well as specific information about each body system and alterations associated with aging. The course concludes with a discussion of gerontological issues. 18 lecture hours, 54 lab hours.

Vocational Nursing 
(Health Sciences) 

Vocational Nursing Courses 

VNRS 150 
Fundamentals of Nursing 
3 Units 
Prerequisite: NRS 100. 
Corequisites: VNRS 151L, 152, 153, 154, and 155. 
This course presents the evolution of nursing through history until the present time, defines the paradigm of health and illness, explores the issues of culture and ethnicity, and examines the nurse-client relationship. The course presents a wide variety of basic nursing procedures used in the practice of vocational nursing, including how to do the procedures, as well as why and when these procedures should be done. The course presents special tools of nursing: the nursing diagnosis and the nursing process, which are used to provide individualized care to clients. The course provides 54 lecture hours at 6.75 hours per week for 8 weeks.

VNRS 151L 
Fundamentals of Nursing Lab 
3 Units 
Prerequisite: NRS 100. 
Corequisites: VNRS 150, 152, 153, 154, and 155. 
Clinical application of theoretical concepts of basic nursing functions. Offered for Grade or P/NP grading only. 162 lab hours over the span of 8 weeks.

VNRS 152 
Pharmacology I 
1 Unit 
Prerequisite: NRS 100 
Corequisites: VNRS 150, 151L, 153, 154, and 155. 
A beginning course in pharmacology. Elementary use of drug formulas, conversions, and dosage forms. 18 lecture hours.

VNRS 153 
Introductory Nutrition for the Vocational Nurse 
1 Unit 
Prerequisite: NRS 100. 
Corequisites: VNRS 150, 151L, 152, 154, and 155. 
This course introduces the fundamentals of nutrition to the nursing student by discussing the relationship of food and health and the body’s utilization of the six essential nutrients. Content also includes the five basic food groups, the food guide pyramid, and how to define and achieve a well-balanced diet. This course establishes the foundation needed for further study of nutrition in NRS 163. 18 lecture hours.

VNRS 154 
Body Structure Function for the Vocational Nurse I 
1.5 Units 
Prerequisite: VNRS 150, 151L, 152, 153, 155. 
Vocational nursing students will explore the basic facts of human anatomy and the principles of physiology with selected clinical examples. 27 lecture hours.

VNRS 155 
Social Psychology for the Vocational Nurse 
1 Unit 
Prerequisite: NRS 100. 
Corequisites: VNRS 150, 151L, 152, 153, and 154. 
Job-related communications. Advanced problem-solving skills needed in the clinical area. 18 lecture hours.

VNRS 160 
Medical-Surgical Nursing I 
3 Units 
Prerequisites: VNRS 150, 151L, 152, 153, 154, 155. 
Corequisites: VNRS 161L, 162, 163, 164, and 165. 
This course presents the theory and principles of nursing care for clients with illness and/or injury of the musculoskeletal, integumentary, and gastrointestinal systems. The course presents the principles and skills needed to perform a beginning level assessment of clients with alterations of these systems, within the scope of practice of the LVN. The course presents the application of the nursing process to the planning and care of these clients. 54 lecture hours over the span of 8 weeks.

VNRS 161L 
Medical-Surgical Nursing I Lab 
3 Units 
Prerequisites: VNRS 150, 151L, 152, 153, 154, 155. 
Corequisites: VNRS 160, 162, 163, 164, and 165. 
Clinical application of theoretical concepts of nursing care for clients with illness and/or injury of the musculoskeletal, integumentary, and gastrointestinal systems. Offered for Grade or P/NP grading only. 162 lab hours over the span of 8 weeks.

VNRS 162 
Pharmacology II 
1 Unit 
Prerequisites: VNRS 150, 151L, 152, 153, 154, 155. 
Corequisites: VNRS 160, 161L, 163, 164, and 165. 
Fundamental principles of drug action, the application of specific drugs in the treatment of disease, and the appropriate nursing actions to maximize the desired outcome of therapy. 18 lecture hours.
VNRS 163
Diet Therapy for the Vocational Nurse
1 Unit
**Prerequisites:** VNRS 150, 151L, 152, 153, 154, 155.
**Corequisites:** VNRS 160, 161L, 162, 163, 164, 165.

This course presents nutritional needs across the lifespan, including the nutritional needs of healthy adults and the needs of people with certain illnesses, as well as nutritional needs related to pregnancy and lactation. Content includes nutritional assessment and planning and the use of therapeutic diets in the treatment of certain illnesses. This course builds on the fundamentals of nutrition presented in VNRS 153. 18 lecture hours.

VNRS 164
Body Structure and Function for the Vocational Nurse II
1.5 Units
**Prerequisites:** VNRS 150, 151L, 152, 153, 154, 155.
**Corequisites:** VNRS 160, 161L, 162, 163, 165.

Vocational nursing students will explore the basic facts of human anatomy and the principals of physiology with selected clinical examples. 27 lecture hours.

VNRS 165
Growth and Development: Young Adult-Elderly
1 Unit
**Prerequisites:** VNRS 150, 151L, 152, 153, 154, 155.
**Corequisites:** VNRS 160, 161L, 162, 163, 164.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Nursing assessment and promotion of health of the adult through death. Theoretical principles of growth and development. 18 lecture hours.

VNRS 170
Medical-Surgical Nursing II
7 Units
**Prerequisites:** VNRS 160, 161L, 162, 163, 164, 165.
**Corequisites:** VNRS 171L, 172, 173, 183.

Provides advanced nursing students the theory needed to perform skills and procedures for the adult in VNRS 171L. By consistently emphasizing the nursing process and rationale, the format with each body system includes basic assessment or data collection, planning, implementation, evaluation and documentation. Basic nursing skills are reinforced. Advanced skills include those related to the following body systems: cardiovascular, respiratory, neurological, genitourinary, endocrine, special senses. 126 lecture hours.

VNRS 171L
Medical-Surgical Nursing II Lab
7 Units
**Prerequisites:** VNRS 160, 161L, 162, 163, 164, 165.
**Corequisites:** VNRS, 170, 172, 173, 183.

Clinical application of theoretical concepts of medical-surgical nursing of patients with alterations of respiration, circulation, and introduction to care of the patient with neurological and genito-urinary conditions. Offered for Grade or P/NP grading only. 378 lab hours.

VNRS 172
Advanced Pharmacology
2 Units
**Prerequisites:** VNRS 160, 161L, 162, 163, 164, 165.
**Corequisites:** VNRS 170, 171L, 173, 183.

Fundamental principles of drug action and the application of specific drugs on the treatment of renal diseases for patients with alterations of respiration, circulation, the blood, endocrine function, neurological function, vision, and hearing. 36 lecture hours.

VNRS 173
Psychology for Vocational Nurses
2 Units
**Prerequisites:** VNRS 161L, 162, 163, 164, 165.
**Corequisite:** VNRS 171L.

Mental health care for patients and their families who are experiencing the pain of mental disorders. Teaches the nurse to plan and deliver care and provide health teaching so that effective self-care is possible when discharge occurs. 36 lecture hours.

VNRS 180
Pediatric Nursing
3.5 Units
**Prerequisites:** VNRS 160, 161L, 162, 163, 164, 165.
**Corequisites:** VNRS 181, 182.

This course covers normal and abnormal conditions of the child from infancy through adolescence. It includes pediatric nursing experience in a local hospital, day care center, and/or clinic. 36 lecture hours, 90 lab hours.

VNRS 181
Growth and Development: Infancy-Adolescence
1 Unit
**Prerequisites:** VNRS 160, 161L, 162, 163, 164, 165.
**Corequisites:** VNRS 180, 182.

Basic knowledge of child development and guidelines for use in primary health care settings. This course may be taken two times. 18 lecture hours.

VNRS 182
Obstetrical-Gynecological Nursing
4 Units
**Prerequisites:** VNRS 160, 161L, 162, 163, 164, 165.
**Corequisites:** VNRS 180, 181.

This course covers obstetrical and gynecological conditions of the female patient, with clinical experience in a local community hospital. 36 lecture hours, 126 lab hours.

VNRS 183
Leadership in Nursing
3 Units
**Prerequisite:** VNRS 160, 161L, 162, 163, 164, 165.
**Corequisites:** VNRS 170, 171L, 172, 173.

Teaches advanced nursing students in the theory needed to perform skills and procedures used by nursing team leaders in a clinical setting. 36 lecture hours, 54 lab hours.

Office Technology and Computer Applications
(Business Department)

The Office Technology and Computer Applications program provides training for employment that encompasses a broad area of study which includes keyboarding, records management, business machine skills, office procedures, filing, word processing using Microsoft Word, scheduling using Microsoft Outlook, professional development skills, publishing, business math, telecommunications for the office, electronic commerce and an integration of Microsoft Word, Excel, Access and Power-Point.

The Office Technology area within Citrus College Business Department conducts the program with state-of-the-art equipment and training in use of current office applications to prepare students for professional careers, transfer study, and/or personal use.

The program combines classroom lectures, demonstrations, and individual hands-on training in laboratory facilities. Faculty works closely with various industries sectors, professional organizations and businesses to ensure relevant training.
### Office Technology Courses
(See also Accounting, Computer Application and Real Estate)

**OFF 057**

**Computer Keyboarding**  
1 Unit  Grade or P/NP  
**Strongly recommended:** READ 099 if required by reading placement exam or if required by reading level.  
This course introduces touch keyboarding using a computer keyboard and is open to students with no previous keying experience. 18 lecture hours, 18 lab hours.

**OFF 101**

**Introduction to Microsoft Office Applications**  
3 Units  Grade or P/NP  
**Strongly recommended:** OFF 057.  
Introduction to Windows and Microsoft Office Suite applications. Computer applications include word processing, spreadsheets, database management, presentation graphics, scheduling/time management, and the Internet. This course may be taken two times. 54 hours lecture, 36 hours lab. CSU/UC

**OFF 120**

**Excel Spreadsheet**  
2 Units  Grade or P/NP  
An introduction to Excel worksheets and workbooks. Includes formatting, calculating sums, formulas, charts, enhancing the worksheet, and making decisions using the IF function, completing financial functions, data lists, and large workbooks and using templates. This course may be taken two times. 36 lecture hours.

**OFF 154**

**Professional Development: Interpersonal Skills**  
1 Unit  Grade or P/NP  
This course provides you with an overview of the key elements needed to succeed in the workplace today. The topics discussed are people skills, persuading others, thinking on your feet, leading others, empowering others, coaching and mentoring others, acquiring political savvy, team building, and handling conflict. 18 lecture hours.

**OFF 155**

**Professional Development: Business Etiquette and Protocol**  
1 Unit  Grade or P/NP  
This course introduces basic business and office etiquette to be successful in today’s workplace. Areas of discussion are: business etiquette the basics, corporate dress, and presentation, interacting with people, office etiquette, meetings, dining etiquette, drinking and eating etiquette, international customs and table manners, and other dos and don’ts. 18 lecture hours.

**OFF 156**

**Professional Development: Team Dynamics**  
1 Unit  Grade or P/NP  
This course introduces teamwork skills including: working in a team, essential elements of a team, how to be a good team player, how to participate in efficient team meetings, and team development. 18 lecture hours.

**OFF 157**

**Professional Development: Customer Relations and Rapport**  
1 Unit  Grade or P/NP  
This course will introduce basic customer relations skills including: customer service versus customer relations, employee responsibilities in customer relations, communications skills, telephone expertise, integrating new technologies, maximizing feedback channels, handling customer complaints, and incorporating public relations and marketing. 18 lecture hours.

**OFF 158**

**Professional Development: Leadership in Organizations**  
1 Unit  Grade or P/NP  
This course introduces basic leadership skills including: leadership dynamics, leadership responsibilities, leadership development, communication for leaders, leaders professional image, organizational management, strategic planning, and leader as a supervisor. 18 lecture hours.

**OFF 159**

**Professional Development Series: Career Planning and Networking**  
1 Unit  Grade or P/NP  
This course will introduce the basic concepts to researching careers, networking, job searching preparation for change and accepting the job offer. 18 lecture hours.

**OFF 160**

**Professional Development: Professional Image**  
1 Unit  Grade or P/NP  
This course provides an overview of the professional image which can have a profound effect on career advancement of the individual. Areas of discussions are: professional image, professional appearance, professional dress, wardrobe management, manners and etiquette for the professional, personal behavior, communicating professionally, and professional image development. 18 lecture hours.

**OFF 161**

**Professional Development: Interview Styles and Strategies**  
1 Unit  Grade or P/NP  
This course provides you with the elements needed to prepare for interviewing in today’s businesses. Topics include: The Interview ¿ what is and is not appropriate, frequently asked questions during the interviewing process, interviewing styles, strategies for planning and preparing, strategies for impressing and expressing throughout the interview process, strategies for handling tough questions/obstacles, strategies for assessing, critiquing, evaluating, and negotiating the deal. This course may be taken two times. 18 lecture hours.

**OFF 201**

**Introduction to Electronic Commerce for Business**  
2 Units  Grade or P/NP  
An overview of Electronic Commerce for Business. Topics include: definition of Electronic Commerce, interface design and web site promotion, building an electronic commerce store, electronic security, electronic payment systems, and careers in electronic commerce. This course may be taken two times. 36 lecture hours, 18 lab hours.

**OFF 215**

**Introduction to Microsoft Outlook**  
2 Units  Grade or P/NP  
An introduction to a scheduling and organizing program. Topics include creating and editing a calendar, contacts, task list, journal, notes, synchronizing personal digital assistant, and communicating with an electronic mail system. 36 lecture hours.

**OFF 260**

**Computer Keyboarding and Document Processing**  
3 Units  Grade or P/NP  
**Strongly recommended:** OFF 057.  
This course introduces skills and techniques fundamental to touch keyboarding on a microcomputer. This course also introduces document processing of letters, memorandums, reports and tables and is open to students with no previous keying experience. 54 lecture hours, 36 lab hours. CSU

**OFF 281**

**Filing and Records Management**  
3 Units  Grade or P/NP  
**Strongly recommended:** OFF 057.  
An overview of records management which involves practical fundamentals of records management, basic filing principles, procedures, and systems. Emphasis if on non-correspondence records, information storage, and retrieval systems. Management aspects of records retention, disposition, and the operation of a records management program. 54 lecture hours.

**OFF 291**

**Telecommunications for the Office**  
2 Units  Grade or P/NP  
An introduction to telecommunications media for the office. Includes using and managing electronic mail, electronic bul-
letin boards, voice mail, video conferencing, facsimile machines, finding data through Netscape, using local and wide area networks, and the integration of voice, data, and video systems. 36 lecture hours, 18 lab hours.

OFF 294 Beginning Microsoft Word 2 Units
An introduction to word processing concepts. Topics include: creating and editing text and printing office documents such as; letters from templates, research papers, resume, mail merge, and newsletters. This course will also include proofreading and editing skills. 36 lecture hours.

Cooperative Education Courses

OFF 698A Cooperative Education 1 Unit
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Office Technology at their place of volunteer employment or training sites. 60 lab hours arranged per semester. This course may be taken four times.

OFF 698B Cooperative Education 2 Units
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Office Technology at their place of volunteer employment or training sites. 120 lab hours arranged per semester. This course may be taken four times.

OFF 698C Cooperative Education 3 Units
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Office Technology at their place of volunteer employment or training sites. 180 lab hours arranged per semester. This course may be taken four times.

OFF 698D Cooperative Education 4 Units
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Office Technology at their place of volunteer employment or training sites. 240 lab hours arranged per semester. This course may be taken four times.

OFF 699A Cooperative Education 1 Unit
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Office Technology at their place of paid employment or training sites. 75 lab hours arranged per semester. This course may be taken four times.

OFF 699B Cooperative Education 2 Units
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Office Technology at their place of paid employment or training sites. 150 lab hours arranged per semester. This course may be taken four times.

OFF 699C Cooperative Education 3 Units
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Office Technology at their place of paid employment or training sites. 225 lab hours arranged per semester. This course may be taken four times.

OFF 699D Cooperative Education 4 Units
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Office Technology at their place of paid employment or training sites. 300 lab hours arranged per semester. This course may be taken four times.

Physical Education (Health, Physical Education, and Athletics Department)
The courses in this department are organized with multiple goals in mind: 1. To provide individuals with skills in activities that they may enjoy for a lifetime, 2. To provide individuals with an understanding of and a means of maintenance of physical fitness, 3. To provide introductory course work for students wishing to enter the field, and 4. To provide a competitive experience through varsity sports for those students exhibiting exceptional physical talent.

Physical Education Activity Courses

PE 101 Badminton 1 Unit
Development of skills necessary to participate in a game of badminton. This course may be taken four times with the objective of improving proficiency in previously learned skills by further repetition and supervised instruction.
Elementary: Development of basic badminton skills and knowledge with an emphasis on footwork, clear, drop, smash, serve, blocking the smash shot and basic strategies of singles, doubles and mixed doubles play.
Intermediate: Intermediate techniques in badminton with an emphasis on skill development and the strategies of singles, doubles and mixed doubles play. 18 lecture hours, 18 lab hours. CSU/UC
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Grade or P/NP</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 102</td>
<td>Bowling</td>
<td>1</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>This course will provide a semi-competitive opportunity for the student with basic to advanced bowling skills. This program will provide an opportunity for the student to work on the fundamental and advanced skills of bowling. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 103</td>
<td>Golf</td>
<td>1</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>This course will offer a non-competitive environment in which the student can develop the basic fundamentals of golf. Instruction will emphasize woods, long and short irons, bunker play, putting, golf terminology, rules and etiquette. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 104</td>
<td>Self-Defense and Personal Safety</td>
<td>1</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>The theory and techniques of self-defense and personal safety. Content focuses on methods of recognizing and avoiding dangers plus skills and strategies of employing physical defense when necessary. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 106</td>
<td>Racquetball</td>
<td>1</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>Instruction and practice in the various fundamental skills of racquetball. This course may be taken four times with the objective of improving proficiency in previously learned skills by further repetition and supervised instruction. Elementary: Basic racquetball skills are taught in serving, receiving, forehand and backhand. Rules and etiquette are taught. Intermediate: Designed to improve the skills of the intermediate player. Emphasis will be on improving the use of two and three walls in doubles and singles play. Advanced: Designed to apply and refine advanced skills and strategy. The intent is to maintain interest and perform at a higher level of skill. 18 lecture hours, 18 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 108</td>
<td>Tennis</td>
<td>1</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>Instruction will be concerned with individual growth of fundamentals and techniques of tennis that will allow the student to participate in a lifetime activity. This course may be taken four times with the objective of improving proficiency in previously learned skills by further repetition and supervised instruction. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 110</td>
<td>Shao-Lin Kung Fu</td>
<td>1</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>Instruction in traditional Shao-lin long-first kung fu, including basics, forms, self-defense and joint locks, as well as the philosophy relevant to martial arts and daily life. Repeat students have the option of testing for rank and advancing towards a black belt. This course may be taken three times. 18 lecture hours, 18 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 112</td>
<td>Tai Chi Chuan</td>
<td>1</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>Instruction in the 24-style of tai chi chuan, a short form of the health exercise and martial art of tai chi that can easily be learned in one semester. Repeat students have the option of learning the Yang style long form and weapon forms. The course also covers tai chi philosophy and the application of tai chi to daily life. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 115</td>
<td>Snowboarding</td>
<td>1</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>This course is designed to teach the basic skills of snowboarding. The skills will include correct body position, turning, speed checking, stopping, getting up, and basic jumps. Discussion on selection of equipment, care of equipment, selection of apparel, safety tips, and back country survival will also be included. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 116</td>
<td>Yoga</td>
<td>1</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>This course focuses on the development of the body/mind through the use of specific Yoga postures, breathing techniques, stretches, mental exercises, and relaxation exercises. The goals are to instruct students to achieve greater concentration, self-discipline, and improved physical/emotional health through instruction and practice of these skills. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 130</td>
<td>Basketball</td>
<td>1</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>Techniques in basketball such as ball handling, passing, receiving, screening, cutting, shooting, team play and strategy of the game. Rules are included. This course may be taken four times with the objective of improving proficiency in previously learned skills by further repetition and supervised instruction. 18 lecture hours, 18 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 132</td>
<td>Football</td>
<td>1</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>Techniques in football, such as passing, receiving, kicking, blocking and team play. Rules are included. This course may be taken four times with the objective of improving proficiency in previously learned skills by further repetition and supervised instruction. 18 lecture hours, 18 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 133</td>
<td>Soccer</td>
<td>1</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>Course is designed to teach fundamentals of soccer and to develop physical stamina and neuromuscular coordination. Active participation will take place in interclass competition. This course may be taken four times with the objective of improving proficiency in previously learned skills by further repetition and supervised instruction. 18 lecture hours, 18 lab hours. CSU;UC</td>
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<tr>
<td>PE 134</td>
<td>Softball</td>
<td>1</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
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<td>Instruction in the basic skills and techniques of play in softball. Each student will be required to understand the statistical aspect of the game. This course may be taken four times with the objective of improving proficiency in previously learned skills by further repetition and supervised instruction. 18 lecture hours, 18 lab hours. CSU;UC</td>
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</tbody>
</table>
PE 135 Volleyball
1 Unit Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course is designed to develop flexibility, cardiovascular endurance, and coordination through water exercises. This class will help develop better posture and appearance through better understanding of body exercises and movement through performance. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC

PE 136 Water Polo
1 Unit Grade or P/NP
Prerequisite: Must have at least one of the following: Intermediate Swimming, Red Cross Intermediate Swimming Card or Lifeguard Training.

This course is designed to develop and perfect the basic swimming strokes needed to successfully execute the various lifesaving skills, as well as improve general skills and proficiency in the water. Upon completion of the course a student who successfully passes written and practical exams will be eligible to be certified for an American Red Cross Lifesaving and the American Red Cross CPR for the professional Rescuer Cards. 18 lecture hours, 18 lab hours. CSU;UC

Physical Education Courses

Aquatic Courses

PE 141 Lifeguard Training
1 Unit Grade or P/NP
Prerequisite: Swim 300 yards continuously. Starting in the water, swim 20 yards using front crawl or breast-stroke, surface dive 7-10 feet, retrieve a 10 lb. object, return to the surface, swim 20 yards back to the starting point with the object and exit the water without using a ladder or steps, within 1 minute, 40 seconds.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course is designed to develop and perfect the basic swimming strokes needed to successfully execute the various lifesaving skills, as well as improve general skills and proficiency in the water. Upon completion of the course a student who successfully passes written and practical exams will be eligible to be certified for an American Red Cross Lifesaving and the American Red Cross CPR for the professional Rescuer Cards. 18 lecture hours, 18 lab hours. CSU;UC

PE 142 Swimming-Beginning
1 Unit
This course provides basic instruction and practice in the fundamental elements of swimming including beginning diving and water safety instruction. The class is designed to develop proficiency in the basic strokes needed to meet the prerequisites for the senior lifesaving and water safety instruction course. 18 lecture hours, 18 lab hours. CSU;UC

PE 143 Swimming - Intermediate/Advanced
1 Unit
Prerequisite: Beginning swimming, or demonstrate swimming skills needed to perform at intermediate level instruction.

This course is designed to develop knowledge and skill in competitive swimming strokes. Swimming strokes to be taught are the American crawl, back stroke, breast stroke, and dolphin butterfly. The class will emphasize the development of cardiovascular aerobic conditioning. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC

PE 144 Water Safety Instructor
10 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course will include general conditioning exercises, aerobic exercises, and exercises to develop flexibility and strength. This course may be taken four times with the instructor's permission. 18 lecture hours, 36 lab hours. CSU;UC

PE 145 Strength Training, Balance, and Agility
1 Unit Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by level.

This course is designed to develop and perfect the basic swimming strokes needed to successfully execute the various lifesaving skills, as well as improve general skills and proficiency in the water. Upon completion of the course a student who successfully passes written and practical exams will be eligible to be certified for an American Red Cross Lifesaving and the American Red Cross CPR for the professional Rescuer Cards. 18 lecture hours, 18 lab hours. CSU;UC

PE 146 Water Exercise
1 Unit Grade or P/NP

This class is designed to develop strength, flexibility, cardiovascular endurance, and coordination through water exercises. This class will help develop better posture and appearance through better understanding of body exercises and movement through performance. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC

PE 147 Swimming for Cardiovascular Improvement
1 Unit Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course provides basic instruction and may be taken unlimited times with the instructor’s permission. 18 lecture hours, 36 lab hours. CSU;UC

PE 148 Adapted Aquatic Exercises
1 Unit Grade or P/NP

Designed for the student with a physical disability who is unable to participate in regular physical education classes. A medical doctor’s written prescription of exercise limitations is required. This course may be taken unlimited times with instructors permission. 18 lecture hours, 36 lab hours. CSU;UC

PE 149 Adapted Physical Education
1 Unit Grade or P/NP
Prerequisite: Physician’s written diagnosis of physical disability and exercise limitations.

Designed for the student with a physical disability who is unable to participate in regular physical education classes. A medical doctor’s written prescription of exercise limitations is required. This course may be taken unlimited times with the instructor’s permission. 18 lecture hours, 36 lab hours. CSU;UC

PE 150 Body Conditioning
1 Unit Grade or P/NP

This course will include general conditioning exercises, aerobic exercises, and exercises to develop flexibility and strength. This course may be taken four times with
the objective of increasing and expanding the student's proficiencies and attitudes toward body conditioning through a supervised exercise program. 18 lecture hours, 18 lab hours. CSU;UC

**PE 152**  
**Weight Training**  
1 Unit  
Grade or P/NP  
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*  
This course is designed to develop both the large and small group skeletal muscles through a program of weight lifting, circuit training, power lifting, Olympic lifting, and conditioning. This course may be taken four times with the objective of improving proficiency in previously learned skills by further repetition and supervised instruction. A student may not earn more than four units through the combination of PE 152 and 154. 18 lecture hours, 18 lab hours. CSU;UC

**PE 153**  
**Walking/Jogging**  
1 Unit  
Grade or P/NP  
A Walking/Jogging program that consists of activity alternately at a slow to moderate pace. This program is designed to build cardio respiratory stamina and endurance, attack excessive weight, relieve psychological tension, and enhance one's sense of well being. This course may be taken four times. 18 lecture hours. 18 lab hours. CSU;UC

**PE 154**  
**Advanced Weight Training**  
2 Units  
Grade or P/NP  
*Strongly recommended: PE 152.*  
This course is designed to study methods applicable to power lifting, Olympic lifting, and conditioning. Students will participate in formulation of individual workout sessions. Emphasis will be on increasing strength, flexibility, and quickness. This course may be taken four times. 18 lecture hours, 54 lab hours. CSU;UC

**PE 159**  
**Cardiovascular Training**  
1 Unit  
Grade or P/NP  
This course will offer a non competitive, flexible, scheduled environment in which the student can develop a total fitness program. This program will promote areas of muscular strength, flexibility, and cardiovascular endurance. A philosophy of Fitness for Life	extsuperscript{a} will be the ultimate objective. Every student will be encouraged to regulate his/her program so that it will be enjoyable on a long term basis. This course may be taken four times. 9 hours lecture, 27 lab hours. CSU;UC

### Physical Education Theory Courses

#### PE 169  
**Introduction to Coaching**  
3 Units  
Grade or P/NP  
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*  
This course is to study the different aspects of coaching including philosophies and techniques. It will provide the student with a basic understanding of coaching on all levels. The topics included will be recruiting, tryouts, pre and post season development, conditioning, weight training, practice organization, game strategies, motivation techniques, legal aspects, public relations, media, fundraising and ethics. 54 lecture hours. CSU;UC

#### PE 170  
**Fitness For Life**  
3 Units  
Grade or P/NP  
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*  
This course explains the mechanics of a proper exercise and diet program through lecture and exercise activities. Various forms of exercise will be presented for trial by each student to develop a personal fitness prescription. 54 lecture hours. CSU;UC

#### PE 171  
**Health Science**  
3 Units  
Grade or P/NP  
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*  
This course is designed to explore the major areas of health that will have an effect on the well-being of the individual now and in the future. 54 lecture hours. CSU;UC

#### PE 171H  
**Health Science/Honors**  
3 Units  
Grade or P/NP  
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*  
This course is designed to explore the major areas of health that will have an effect on the well-being of the individual now and in the future. Students are expected to work and participate at an honors level which includes strong critical thinking skills, through analysis of readings, presentation, and leadership skills demonstrated through class participation/presentation during the investigation of health/fitness topics. 54 lecture hours. CSU;UC

#### PE 172  
**Introduction To Physical Education**  
3 Units  
Grade or P/NP  
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*  
This course explores the history and principles of physical education, exercise science, and sports. The objectives are to define and investigate the importance of modern physical education with a view toward developing a basic philosophy and background for professional education. 54 lecture hours. CSU;UC

#### PE 173  
**Nutrition for Fitness**  
3 Units  
Grade or P/NP  
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*  
A course of study to give the student entering the field of physical education a survey and basic analysis of the team sports: football, baseball, basketball, softball, soccer, badminton, tennis, swimming, water polo and track. 54 lecture hours. CSU;UC

#### PE 174  
**Introduction To Team Sports**  
3 Units  
Grade or P/NP  
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*  
A course of study to give the student entering the field of physical education a survey and basic analysis of individual sports: archery, badminton, bowling, golf, handball, karate, angling, skateboarding, swimming, tennis, track and field, weightlifting and wrestling. 54 lecture hours. CSU;UC

#### PE 175  
**Introduction To Ind/Dual Sport**  
3 Units  
Grade or P/NP  
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*  
A course of study to give the student entering the field of physical education a survey and basic analysis of individual sports: archery, badminton, bowling, golf, handball, karate, angling, skateboarding, swimming, tennis, track and field, weightlifting and wrestling. 54 lecture hours. CSU;UC

#### PE 176  
**Elementary School Physical Education**  
3 Units  
Grade or P/NP  
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*  
A course of study to give the student entering the field of physical education a survey and basic analysis of individual sports: archery, badminton, bowling, golf, handball, karate, angling, skateboarding, swimming, tennis, track and field, weightlifting and wrestling. 54 lecture hours. CSU;UC

#### PE 177  
**First-Aid Responding To Emergencies**  
3 Units  
Grade or P/NP  
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*  
An introductory course that will acquaint students with physical education programs for grades K-6. The course will include observation and visitation with elementary age students. The course will include methods, skills, and activities used in teaching elementary physical education. The class is recommended for elementary education and physical education majors. 54 lecture hours. CSU;UC
Complies with requirements as set forth by the American National Red Cross for first aid responding to emergencies. Students will receive the Responding to Emergencies and adult/child/infant CPR cards.

54 lecture hours. CSU; UC

PE 182
Care and Prevention of Athletic Injuries
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course is an overview of sports medicine, intended for those students in the fields of physical education, coaching and athletic training. This course covers the basics of exercise physiology, biomechanics, human motor learning, sports injuries and other special topics in sports medicine. 54 lecture hours. CSU; UC

PE 184
Volleyball Theory
2 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course focuses on the biomechanical and technical analysis of intercollegiate volleyball. 36 lecture hours. CSU; UC

PE 185
Softball Theory
2 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course prepares the student to administer a softball program. It will include practice organization, administration, and live game strategy. 36 lecture hours. CSU; UC

PE 186
Basketball Theory
2 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course prepares the student to administer a basketball program. It will include teaching methods, practice organization, administration, scouting and live game strategy. 36 lecture hours. CSU; UC

PE 187
Techniques and Strategies of Intercollegiate Football
2 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A practical study of game techniques and strategy used in intercollegiate football, including techniques of offensive and defensive play. 36 lecture hours. CSU; UC

Physical Education Competitive Athletic Courses

PE 156A
Physical Conditioning for Intercollegiate Sports
1 Unit Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course is designed to provide an out-of-season physical conditioning program for the student interested in intercollegiate athletics. This course may be taken four times. 9 lecture hours, 27 lab hours. PE 156A and PE 156B can be taken a combined total of four times. CSU; UC

PE 156B
Physical Conditioning for Intercollegiate Sports
2 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course is designed to provide an out-of-season physical conditioning program for the student interested in intercollegiate athletics. This course may be taken four times. 18 lecture hours, 54 lab hours. PE 156A and PE 156B can be taken a combined total of four times. CSU; UC

PE 160A
Advanced Physical Conditioning for Intercollegiate Sports
1 Unit Grade or P/NP
Strongly recommended: PE 156.

Also, a second season varsity college athlete or with coaches permission.

This course is designed to provide an out of season physical conditioning program for the second season intercollegiate student athlete. PE 160A and PE 160B can be taken a combined total of four times. 9 lecture hours, 27 lab hours. CSU; UC

PE 160B
Advanced Physical Conditioning for Intercollegiate Sports
2 Units Grade or P/NP
Strongly recommended: PE 156.

Other: Must be a athlete/varsity college prospect or with coaches permission.

Also, a second season varsity college athlete or with coaches permission.

This course is designed to provide an out of season physical conditioning program for the second season intercollegiate student athlete. PE 160A and PE160B can be taken a combined total of four times. 18 lecture hours, 54 lab hours. CSU; UC
PE 207A
Off-Season Men's Varsity Athletics
0.5 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Must be a college varsity athlete/college varsity prospect or coach’s permission.
This course provides intermediate and advanced instruction and practice in the skills and strategies of varsity athletics. PE 207A and PE 207B can be taken a combined total of four times. 45 lab hours.

PE 207B
Off-Season Men's Varsity Athletics
1 Unit
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Must be a college varsity athlete/college varsity prospect or coach’s permission.
This course provides intermediate and advanced instruction and practice in the skills and strategies of varsity athletics. PE 207A and PE 207B can be taken a combined total of four times. 90 lab hours.

PE 208A
Off-Season Women's Varsity Athletics
0.5 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Must be a college varsity athlete/college varsity prospect or coach’s permission.
This course provides intermediate and advanced instruction and practice in the skills and strategies of varsity athletics. PE 208A and PE208B can be taken a combined total of four times. 45 lab hours.

PE 208B
Off-Season Women's Varsity Athletics
1 Unit
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Must be a college varsity athlete/college varsity prospect or coach’s permission.
This course provides intermediate and advanced instruction and practice in the skills and strategies of varsity athletics. PE 208A and PE208B can be taken a combined total of four times. 90 lab hours.

PE 209
Women's Varsity Soccer
2 Units
Grade or P/NP
Strongly recommended: Advanced Soccer skill to participate in a competitive collegiate experience.
Intercollegiate competition in women's varsity soccer. This course may be taken four times. 160 lab hours. CSU;UC

PE 210
Women's Varsity Tennis
2 Units
Grade or P/NP
Strongly recommended: Advanced tennis skills to participate in a competitive collegiate experience.
Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC

PE 211
Women's Varsity Volleyball
2 Units
Grade or P/NP
Strongly recommended: Advanced volleyball skills to participate in a competitive collegiate experience.
Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC

PE 212
Women's Varsity Swimming
2 Units
Grade or P/NP
Strongly recommended: Advanced swimming skills to participate in a competitive collegiate experience.
Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC

PE 213
Women's Varsity Basketball
2 Units
Grade or P/NP
Strongly recommended: Advanced basketball skills to participate in a competitive collegiate experience.
Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC

PE 214
Women's Varsity Softball
2 Units
Grade or P/NP
Strongly recommended: Advanced softball skills to participate in a competitive collegiate experience.
Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC

PE 215
Women's Varsity Track & Field
2 Units
Grade or P/NP
Strongly recommended: Advanced Track and Field skills to participate in a competitive collegiate experience.
Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC

PE 216
Women's Varsity Cross Country
2 Units
Grade or P/NP
Strongly recommended: Advanced cross country skills to participate in a competitive collegiate experience.
Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC

PE 220
Men's Varsity Football
2 Units
Grade or P/NP
Strongly recommended: Advanced football skills to participate in a competitive collegiate experience.
Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC

PE 221
Men's Varsity Basketball
2 Units
Grade or P/NP
Strongly recommended: Advanced basketball skills to participate in a competitive collegiate experience.
Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC

PE 222
Men's Varsity Track and Field
2 Units
Grade or P/NP
Strongly recommended: Advanced Track and Field skills to participate in a competitive collegiate experience.
Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC

PE 223
Men's Varsity Tennis
2 Units
Grade or P/NP
Strongly recommended: Advanced Tennis skills to participate in a competitive collegiate experience.
Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC

PE 224
Men's Varsity Baseball
2 Units
Grade or P/NP
Strongly recommended: Advanced baseball skills to participate in a competitive collegiate experience.
Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Degree Status</th>
<th>Prerequisite/Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 225</td>
<td>Men's Varsity Golf</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: Advanced golf skills to participate in a competitive collegiate experience. Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 226</td>
<td>Men's Varsity Cross Country</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: Advanced Cross Country skills to participate in a competitive collegiate experience. Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 227</td>
<td>Women's Varsity Golf</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: Advanced golf skills to participate in a competitive collegiate experience. Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 228</td>
<td>Men's Varsity Swimming</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Advanced swimming skills to participate in a competitive collegiate experience. Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 229</td>
<td>Men's Varsity Water Polo</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: Advanced swimming skills to participate in a competitive collegiate experience. Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 230</td>
<td>Women's Varsity Water Polo</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: Advanced swimming skills to participate in a competitive collegiate experience. Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PE 231</td>
<td>Men's Varsity Soccer</td>
<td>2</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: Advanced soccer skills to participate in a competitive collegiate experience. Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 160 lab hours. CSU;UC</td>
</tr>
<tr>
<td>PHIL 101</td>
<td>Great Religions of the World</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. The knowledge of logic, ethics and the history of philosophy provides a means of systematizing, assimilating and evaluating masses of knowledge and the development of perspective. A study of philosophy provides a valuable background for any student interested in social or natural sciences, or humanities and particularly in law, theology and education.</td>
</tr>
<tr>
<td>PHIL 106</td>
<td>Introduction to Philosophy</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
</tr>
<tr>
<td>PHIL 106H</td>
<td>Introduction to Philosophy/Honors</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: Read 099 if required by reading placement exam or if required by reading level. A critical analysis of concepts of the good life and of morality as articulated by great philosophers, with the aim of cultivating awareness of the importance of a reasoned approach to such questions in one's own life.</td>
</tr>
<tr>
<td>PHIL 108</td>
<td>Philosophy - Ethics</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. A critical analysis of concepts of the good life and of morality as articulated by great philosophers, with the aim of cultivating awareness of the importance of a reasoned approach to such questions in one's own life.</td>
</tr>
<tr>
<td>PHTO 101</td>
<td>Basic Photography</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Fundamental still photography with emphasis on planning a photograph, choice of camera, choice of films and papers, use of natural and artificial light, function of lenses and shutters, and techniques for processing sensitized materials.</td>
</tr>
<tr>
<td>PHTO 102</td>
<td>Intermediate Photography</td>
<td>3</td>
<td>Grade or P/NP</td>
<td>Prerequisite: PHTO 101. Provides emphasis on lighting, control of lighting and subject contrast, improvement of composition, and photographic print quality.</td>
</tr>
</tbody>
</table>

### Philosophy Courses

- **PHIL 101: Great Religions of the World**
  - *Description*: The knowledge of logic, ethics and the history of philosophy provides a means of systematizing, assimilating and evaluating masses of knowledge and the development of perspective. A study of philosophy provides a valuable background for any student interested in social or natural sciences, or humanities and particularly in law, theology and education.

- **PHIL 106: Introduction to Philosophy**
  - *Degree of Importance*: Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
  - *Course Details*: The historical development, principal ideas and contributions of the world's religions. 54 lecture hours. CSU;UC

- **PHIL 106H: Introduction to Philosophy/Honors**
  - *Degree of Importance*: Strongly recommended: Read 099 if required by reading placement exam or if required by reading level.
  - *Course Details*: A critical analysis of concepts of the good life and of morality as articulated by great philosophers, with the aim of cultivating awareness of the importance of a reasoned approach to such questions in one's own life. 54 lecture hours. CSU;UC

- **PHIL 108: Philosophy - Ethics**
  - *Degree of Importance*: Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
  - *Course Details*: A critical analysis of concepts of the good life and of morality as articulated by great philosophers, with the aim of cultivating awareness of the importance of a reasoned approach to such questions in one's own life. 54 lecture hours. CSU;UC

- **PHTO 101: Basic Photography**
  - *Degree of Importance*: Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
  - *Course Details*: Fundamental still photography with emphasis on planning a photograph, choice of camera, choice of films and papers, use of natural and artificial light, function of lenses and shutters, and techniques for processing sensitized materials. 36 lecture hours, 90 lab hours. CSU;UC

- **PHTO 102: Intermediate Photography**
  - *Degree of Importance*: Prerequisite: PHTO 101. Provides emphasis on lighting, control of lighting and subject contrast, improvement of composition, and photographic print quality. 36 lecture hours, 90 lab hours. CSU;UC
PHTO 103
Advanced Photography
3 Units Grade or P/NP
Prerequisite: PHTO 102.
A continuation of black and white photographic techniques introducing advanced methods as applied to commercial and industrial careers working with more specialized equipment. This course may be taken three times. 36 lecture hours, 90 lab hours. CSU

PHTO 110L
Photography Lab
1 Unit Grade or P/NP
Prerequisite: Completion of, or concurrent enrollment required in, PHTO 101.
Extended black and white laboratory experiences to supplement those available in the regular program. Provides opportunities for students to pursue more advanced projects and experiments. The student who repeats this course will be gaining an expanded educational experience through supervised participation and instruction. This course may be taken four times. 54 lab hours.

PHTO 125
Photography as an Art Medium
3 Units Grade or P/NP
Prerequisite: PHTO 101.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Photography at their place of volunteer employment or training sites. 180 lab hours arranged per semester. This course may be taken four times.

PHTO 126
Advanced Photography as an Art Medium
3 Units Grade or P/NP
Prerequisite: PHTO 125.
A continuation of PHTO 125. Provides more advanced techniques and materials relevant to the photography industry today. Manipulation of photographic materials will produce posterized, bas-relief and multiple-image high contrast prints. 36 lecture hours, 54 lab hours. CSU

PHTO 202
Photojournalism I
3 Units Grade or P/NP
Prerequisite: PHTO 101.
A continuation of PHTO 202 covering the theory and practice of news photography. Students will take still pictures for college publications. 36 lecture hours, 54 lab hours. CSU

PHTO 203
Photojournalism II
3 Units Grade or P/NP
Prerequisite: PHTO 202.
A continuation of PHTO 202 covering the theory and practice of news photography. Students will take still pictures for college publications. 36 lecture hours, 54 lab hours. CSU

PHTO 205
Color Photography
3 Units Grade or P/NP
Prerequisite: PHTO 101.
Deals with properly exposing and processing color film and color print materials. Instruction covers use of cameras, films, filters, color temperature meter, exposure, lighting equipment, and color analysis for color printing. 36 lecture hours, 90 lab hours. CSU

PHTO 206
Intermediate Color Photography
3 Units Grade or P/NP
Prerequisite: PHTO 205.
Provides instruction in use of flash equipment, experimental photography, prints from slides, slide copying, making inter-negatives, control of color temperature, and lighting and subject contrast. 36 lecture hours, 90 lab hours. CSU

PHTO 211
Environmental Photography
3 Units Grade or P/NP
Prerequisite: PHTO 101.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A continuation of PHTO 202. Provides instruction in the use of electronic imaging devices. Utilization of electronic devices to produce high-quality images in a variety of environmental settings. 36 lecture hours, 54 lab hours. CSU

PHTO 213
Studio Portraiture
3 Units Grade or P/NP
Prerequisite: PHTO 101.
Power for students to pursue more advanced projects and experiments. The student who repeats this course will be gaining an expanded educational experience through supervised participation and instruction. This course may be taken four times. 54 lab hours.

PHTO 215
Electronic Photo Imaging
3 Units Grade or P/NP
Prerequisite: PHTO 101 and 205.
A course introducing electronics imaging using Adobe Photoshop 5.5. This course will cover scanning of negatives and photographs. How to save these images on disk. Utilization of tools for modification, special effects filters, scaling of image, and printing. The use of digital cameras will be covered. This course may be taken three times. 36 lecture hours, 90 lab hours. CSU

Cooperative Education Courses

PHTO 698A
Cooperative Education
1 Unit Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Photography at their place of volunteer employment or training sites. 60 lab hours arranged per semester. This course may be taken four times.

PHTO 698B
Cooperative Education
2 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Photography at their place of volunteer employment or training sites. 120 lab hours arranged per semester. This course may be taken four times.

PHTO 698C
Cooperative Education
3 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Photography at their place of volunteer employment or training sites. 180 lab hours arranged per semester. This course may be taken four times.

PHTO 698D
Cooperative Education
4 Units Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Photography at their place of volunteer employment or training sites. 240 lab hours arranged per semester. This course may be taken four times.
at their place of volunteer employment or training sites. 240 lab hours arranged per semester. This course may be taken four times.

PHTO 699A
Cooperative Education
1 Unit
Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Photography at their place of paid employment or training sites. 75 lab hours arranged per semester. This course may be taken four times.

PHTO 699B
Cooperative Education
2 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Photography at their place of paid employment or training sites. 150 lab hours arranged per semester. This course may be taken four times.

PHTO 699C
Cooperative Education
3 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Photography at their place of paid employment or training sites. 225 lab hours arranged per semester. This course may be taken four times.

PHTO 699D
Cooperative Education
4 Units
Grade or P/NP
Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Photography at their place of paid employment or training sites. 300 lab hours arranged per semester. This course may be taken four times.

Physics
(Physical and Natural Sciences Department)

Several sequences of physics courses are offered to meet the requirements of various majors. PHYS 110 meets the need of the two-year nursing student and the two-year technology student. It is also suitable for students who need credit for physical science transfer. PHYS 111 and 112 meet the needs of pre-medical, pre-dental, pre-forestry, four-year technology, four year nursing, and architecture majors. PHYS 201, 202, and 203 meet the needs of engineering, mathematics, chemistry, physics, geology, and oceanography majors.

Physics Courses

PHYS 105
Physical Science
3 Units
A general science course for non-majors that introduces fundamental concepts in physics, astronomy, and geology by integrating scenes from science fiction films. 54 lecture hours. CSU; UC

PHYS 106
Chemistry and Physics for Educators
4 Units
Prerequisite: MATH 130.
Corequisite: MATH 150.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course provides each prospective multiple subject teacher with an introductory survey of the fundamental concepts of chemistry and physics and the interrelationships among these disciplines. Emphasis is placed on the ways in which chemistry and physics affect everyday life and the role of these disciplines in addressing issues and problems related to energy and the environment. This course is recommended for students planning to take the CSET Multiple Subject Exam to become credentialed elementary school teachers in the State of California. This course is the same course as CHEM 106. This course may be taken two times. 54 lecture hours, 54 lab hours. CSU

PHYS 110
Introduction to College Physics
4 Units
Prerequisite: MATH 130.
Also, READ 099 if required by reading placement exam or if required by reading level.
A general physics course for non-majors that explores fundamental principles of the physical world; kinematics, fluid dynamics, thermodynamics, electricity, electromagnetism, sound propagation, and optics. 54 lecture hours. 72 lab hours. CSU; UC

PHYS 111
General Physics
4 Units
Prerequisites: MATH 151 and high school physics or chemistry.
Corequisite: MATH 162.
A course in college physics including mechanics, properties of materials, wave motion, and thermodynamics. This course is designed for pre-medical, technology and other pre-professional and liberal arts students. The basics of calculus are used to derive and solve some problems. 54 lecture hours, 54 lab hours. CSU; UC

PHYS 112
General Physics
4 Units
Prerequisites: PHYS 111 and MATH 162.
A course in college physics including static electricity, direct current electricity, alternating electricity, optics, atomic physics, quantum mechanics, and nuclear physics. The basics of calculus are used to derive and solve some problems. 54 lecture hours, 54 lab hours. CSU; UC

PHYS 201
Physics
5 Units
Prerequisite: MATH 175.
Corequisite: MATH 190.
Fundamental principles of mechanics, vectors, motion, work, energy, momentum, and rotational motion. Required for all majors in engineering, physics, chemistry, and some geology and mathematics majors. 72 lecture hours, 54 lab hours. CSU; UC

PHYS 202
Physics
5 Units
Prerequisites: PHYS 201 and MATH 190, 191. MATH 191 may be taken concurrently.
Electricity and magnetism. Required of all majors in engineering, physics, chemistry, and some geology and mathematics majors. 72 lecture hours, 54 lab hours. CSU; UC

PHYS 203
Physics
5 Units
Prerequisites: PHYS 201, MATH 190, and 191. MATH 191 may be taken concurrently.
Heat, light, and modern physics. Required of majors in engineering, physics, chem-
Political Science
(Social Sciences Department)

Political science seeks to contribute toward an understanding of democracy, and toward equipping the student to fulfill the obligations of citizenship. While political science courses should first be viewed as essential elements of a balanced education, majors in the field ultimately can look to careers in politics, law, teaching, civil service, public administration and the foreign service.

### Political Science Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLI 103</td>
<td>American Government and Politics</td>
<td>3</td>
<td>Grade or P/NP</td>
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<tr>
<td>POLI 103H</td>
<td>American Government and Politics/Honors</td>
<td>3</td>
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<tr>
<td>POLI 104</td>
<td>Introduction to Political Science</td>
<td>3</td>
<td>Grade or P/NP</td>
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<tr>
<td>POLI 105</td>
<td>Comparative Politics</td>
<td>3</td>
<td>Grade or P/NP</td>
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<tr>
<td>POLI 110</td>
<td>Current American Political Issues</td>
<td>3</td>
<td>Grade or P/NP</td>
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<tr>
<td>POLI 116</td>
<td>Contemporary World Politics</td>
<td>3</td>
<td>Grade or P/NP</td>
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### Psychology
(Behavioral Sciences Department)

Psychology is the scientific study of behavior and cognitive processes. It is, therefore, of particular interest – and unique value – because it informs us of ourselves, the nature of what it is to be human. Psychology coursework, with its wide applicability, satisfies categories of general education and transfer to the California State University system, University of California system, and private universities. Further, while the Psychology Program provides much of the lower-division major preparation in psychology and many related fields.

### Psychology Courses

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Units</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PSY 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
<td>Grade or P/NP</td>
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<tr>
<td>PSY 102</td>
<td>Psychobiology</td>
<td>3</td>
<td>Grade or P/NP</td>
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<tr>
<td>PSY 103</td>
<td>Elementary Statistics</td>
<td>3</td>
<td>Grade or P/NP</td>
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<tr>
<td>PSY 104</td>
<td>Research Methods in Behavioral Science</td>
<td>3</td>
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<tr>
<td>PSY 110</td>
<td>Psychology of Religion I</td>
<td>3</td>
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</tbody>
</table>
on how different schools of psychological thought view and interpret religious concepts and experiences. The major psychological perspectives that are studied include: Psychoanalytic theory, Behavioristic and Humanistic theories. The psychological culture in terms of parallel and the quest for pro-social behaviors will be studied. 54 lecture hours. CSU;UC

PSY 111
Psychology of Religion II
3 Units
Grade or P/NP
Prerequisite: PSY 110.
This course expands the concepts, dialogue, and research in the connection of religion to psychological health and well-being introduced in PSY 110. Cross-topical themes of psychology of religion are presented. 54 lecture hours. CSU;UC

PSY 133
Personal and Social Growth
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course aims to assist students in achieving a foundation in the study of personal and social growth behavior and a better understanding of themselves and human relationships. The principles of healthy functioning are emphasized. 54 lecture hours. CSU

PSY 152
Psychology of Human Relations
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course dealing with the various problems that arise in the manifold relationships which exist between human beings. 54 lecture hours. CSU

PSY 203
Research Methods in Psychology
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or by reading level.
An introductory course in research methodology designed for students in the behavioral and social sciences. The application of basic skills in descriptive and inferential statistics is stressed, as well as critical analysis of experimental and non-experimental research methods in basic and applied research settings. 36 lecture hours, 54 lab hours. CSU;UC

PSY 205
Developmental Psychology
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Developmental Psychology is the scientific study of progressive changes in behavior, cognition, and abilities. Attention is paid to issues related to the roles of nature and nurture in developmental processes. 54 lecture hours. CSU;UC

PSY 206
Child Growth and Development
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Students will critically examine theories of child development in the physical, intellectual, and social-emotional areas as they pertain to the various ages and stages in a child's life from the prenatal development through adolescence. Practices in care giving, teaching, and parenting that derive from diverse cultural and theoretical perspectives will be analyzed. Students will learn to observe and assess children's development and gain insight into the impact of culture on the process of socialization. 54 lecture hours. CSU;UC

PSY 206H
Child Growth and Development/Honors
3 Units
Strongly recommended: READ 099 if reading score is below level 2.
This course is a sequential approach to studying the growth and development from conception through adolescence. This course includes: methods of studying children; principles and theories of development including the cognitive, physical, social, and emotional developmental processes; nature (genetics) vs. nurture; the parenting process; importance of play and toys; exceptional children; child abuse, and the influences of family, peers, and schooling. Students are expected to participate at an honors level which includes strong critical thinking and writing skills as well as thorough analysis of course material. 54 lecture hours. CSU;UC

PSY 212
Abnormal Psychology
3 Units
Grade or P/NP
Prerequisite: PSY 101.
The purpose of this course is two-fold: 1) A description of the various mental disorders as listed in current DSM 2 Units An investigation of the various therapies used in treatment for these disorders. 54 lecture hours. CSU;UC

PSY 213
Survey of Drug and Alcohol Use and Abuse
3 Units
Grade or P/NP
Prerequisite: Completion of PSY 101 with min. grade of C.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Psychological, sociological, and biological perspectives regarding alcohol and drug abuse are examined. 54 lecture hours. CSU;UC

PSY 220
Introduction to Social Psychology
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An introduction to the study of social psychology emphasizes the nature of socially determined behavior as seen in the areas of conformity, propaganda, prejudice, social roles, social process, social perception, and culturally determined personality. 54 lecture hours. CSU;UC

PSY 225
Psychology of Human Sexuality
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An introductory survey of the psychological bases and dimensions of human sexuality with emphasis on the socio-cultural factors involved in intimate relating, sexuality, and loving. 54 lecture hours. CSU;UC

PSY 226
Psychology of Women
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A biocultural analysis of women. Emphasis will be placed on biological, psychological and sociological factors influencing the development of women from birth to death. Evaluation of data, principles and contemporary gender issues in terms of the implications for personal and social change. 54 lecture hours. CSU;UC

PSY 250
Honors Topics Seminar
0.5 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Corequisite: Enrollment in section of approved course as determined by honors program.
Seminar is designed to enhance the learning experience for students enrolled in traditional sections of courses when an honors section is not available. Seminar will feature the additional academic components needed to achieve honors credit. Instructor/student contact is required. This course may be taken four times. 27 lab hours. CSU
Public Works
(Public Services Department)

These course offerings prepare new personnel for public works occupations and provide upgrading within these occupations. Job opportunities exist in both the public and private sectors.

Public Works Courses

PUB 150
Public Works I
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Basic course in street maintenance covering the materials utilized; a review of equipment and techniques used in their applications. Other subjects include street tree programs, street painting and signs programs, street sweeping, weed control, watershed management, and other related subjects. 54 lecture hours.

PUB 151
Street Construction and Maintenance
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course in street maintenance covering materials and methods, with emphasis on preventive maintenance of asphaltic and Portland Cement concrete pavements. Specifications, records and cost accounting systems, as well as revenue sources and budget preparation, will be reviewed. Other subjects include safety, drainage, equipment records and specifications, review of watershed management, and public relations. Codes which pertain to improvements and repair will be reviewed. 54 lecture hours.

PUB 154
Soils - Trenching and Grading
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
The course will cover the identification and classification of soils: the soils suitable for pavements, the various soil tests, and the application of these tests in the construction and maintenance of public works projects to achieve the desired outcome. 54 lecture hours.

PUB 155
Public Works Inspection
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A comprehensive course in public works inspection, including Portland cement concrete, asphaltic concrete, soils, base and sub grade materials. Contracts and specifications and plans will be discussed. Utilities, including underground water, sewer and storm drains will be covered, with emphasis on the safety aspects of trenching, tunneling and jacking. Responsibilities of the contractor, the engineer, the inspector and the owner will be included. Surveying and staking will be reviewed. Prime consideration will be given to inspection records, duties and job diary techniques. 54 lecture hours.

PUB 156
Concrete Structures and Inspection
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An advanced course in public works inspection covering Portland cement concrete culvert and bridge construction beginning with the field work of site preparation, structural excavation, concrete footings, “false work” structures, structural and reinforcing steel, and concrete placement. Prime considerations will be given to inspection reporting, records, and new advances in technology. 54 lecture hours.

PUB 157
Asphalt and Portland Cement
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A comprehensive course in asphaltic concrete and Portland Cement concrete construction technology following the standards of the Asphalt Institute, standard specifications for public works construction, American Concrete Institute and the Portland Cement Association. Included will be design production, placement, consolidation and compaction of the materials. Evaluation of surface defects, maintenance and safety will be covered. 54 lecture hours.

PUB 158
Municipal and Urban Tree Care
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course in tree care for persons working in public works or private industry: tree anatomy, physiology, pruning, cabling, identification, root structure and its effects on infrastructure, soil management, and irrigation. The course is designed to prepare students to pass the Tree Worker Certification exam given by Western Chapter, International Society of Arboriculture. 54 lecture hours.

PUB 160
Public Administration
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A basic course covering the development of the role of public works; the constraints of operation; techniques of administration in planning, finance, and personnel; the traditional model of public works organization and the new advances in technology. 54 lecture hours.

PUB 161
California Occupational Safety and Health
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course covering California Occupational Safety and Health standards and the National Occupational Safety and Health Act of 1970 as applied to public works. The safety standards for excavations, trenches, tunnels, rock drilling, construction, and hauling equipment, flammable vapors, and toxic substances. 54 lecture hours.

PUB 162
Traffic Control Standards, Practices, and Policies
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course provides a greater awareness and appreciation of the unique design, installation, and maintenance techniques required for the proper control and regulation of traffic according to the Manual on Uniform Traffic Control Devices (MUTCD). For public works personnel. 54 lecture hours.

PUB 164
Plan Interpretation and Cost Estimating
3 Units Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course in developing the ability to read and interpret plans and estimate time, material, labor, and equipment needed for public works projects. 54 lecture hours.

PUB 165
Environmental Management in Public Works
3 Units Grade or P/NP
Strongly recommended: PUB 150.
This course is an overview of environmental issues in Public Works. Topics include water quality, watershed management, integrated waste management, air pollution control, regulatory compliance, sustainability, and related issues. 54 lecture hours. CSU

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PUB 166
Supervision in Public Works
3 Units
Grade or P/NP
**Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.**
Fundamentals of supervision focusing on the public works industry. Topics to be covered include communications, employee orientation and training, motivating employees, decision making, performance appraisal, writing, and disciplinary action. 54 lecture hours.

Reading & College Preparation
(Language Arts Department)

The Reading and College Preparation program is a combination of developmental education (basic skills/college preparatory) courses and college courses which supports students in college classes where a competent level of reading skill is required for student success.

**Reading Courses**

READ 019
Literacy Skills
3 Units
Grade or P/NP
This course is designed for students who need a non-competitive environment to develop basic literacy skills including decoding, vocabulary acquisition, and literal comprehension. Offered for Grade or P/NP grading only. This course may be taken two times. 54 lecture hours.

READ 040
Basic Reading Skills
3 Units
**Prerequisite: Placement is based on multiple measure assessment or completion of READ 019 with min. grade of C.**
Development of basic reading strategies which focus on word analysis, vocabulary development, ability to respond orally and in writing to materials read independently from a variety of textual complexities, patterns, and forms including reference, informational, persuasive and literary genres. Designed primarily for students preparing for READ 099. This course may be taken three times. 54 lecture hours.

READ 099
Reading Skills
3 Units
**Grade or P/NP**
**Prerequisites: READ 040 or ESL 054 or placement based on multiple assessment measures.**
An introduction to the fundamental techniques of college reading designed to develop student's literal and inferential comprehension while extending critical reading/thinking skills. This course meets the graduation reading competency requirement. 54 lecture hours.

READ 120
College Reading
3 Units
Grade or P/NP
**Placement based on multiple measures or successful completion of READ 099.**
This course is designed to develop students' literal, interpretative, and critical comprehension; expand their vocabulary; increase their reading speed; and improve their study skills. 54 lecture hours. CSU

Real Estate
(Business Department)

The Real Estate Program encompasses an area of study which includes real estate principles, pre-license, finance, legal aspects, appraisal, practice, property management, escrow, and investment analysis.

The Real Estate Program within the Citrus College Business Department prepares students for professional careers and offers courses that are transferable for credit to four year colleges and universities. The program combines classroom lectures, demonstrations, and individual hands-on training in work-experience settings. The faculty works closely with various industry sectors and professional organizations.

Real Estate Courses
(See Also Accounting, Business Office Technology and Computer Applications)

REAL 210
Real Estate Principles
3 Units
**Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.**
A basic course for those who plan to enter the real estate field vocationally or who desire a background in the subject. Topics include: economics, history, financing, deeds, leases, and partial preparation for California Real Estate Salesperson License Examination. 54 lecture hours. CSU

REAL 212
Real Estate Practice
3 Units
**Prerequisite: REAL 210.**
The activities of the broker and salesman in the real estate business; the real estate office, listings, valuation of properties, prospecting, advertising, exchanges, property management, land utilization and development, handling sales people, and ethical considerations. This course is required to obtain California Real Estate License. 54 lecture hours. CSU

REAL 214
Real Estate Finance
3 Units
**Prerequisite: REAL 210.**
Principles of real estate finance are surveyed with particular emphasis on home financing. Included are instruments of real estate finance, sources of financing, and techniques of loan origination and servicing, plus the role of the federal and state governments. This course is required to obtain California Real Estate Broker License.

REAL 216
Legal Aspects of Real Estate
3 Units
**Prerequisite: REAL 210.**
An introductory course designed to acquaint the student with the legal aspects and current laws pertaining to real estate. This course if required to obtain California Real Estate Broker License. 54 lecture hours. CSU

Recording Technology
(Fine and Performing Arts Department)

This is a one-year audio recording program intended to teach you the basis of how to engineer any kind of music, from hip-hop to classical to movie scenes.

Recording Technology Courses

REC 100
Survey of Entertainment Technology
4 Units
**Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.**
This course is an introduction to conventional and online entertainment technology. Includes exploring the content and creation of recorded music, television, radio, live theatre, film, video and electronic gaming; lecture, demonstration, field trips and guest professionals; media creation. 72 lecture hours.

REC 102
Record Production Basics
4 Units
This is a course in the study and implementation of production techniques for the music industry. Students will develop a selected project from an initial concept to a finished product. 36 lecture hours, 108 lab hours.
REC 103
Introduction to Audio Engineering
4 Units

This course is an introduction to the current technology, terminology and techniques used in audio engineering for recorded music, video and online media. Includes the history of audio, basic audio electronics, microphones, consoles, computer-based production systems and related signal processors. 54 lecture hours, 72 lab hours.

REC 105
Fundamentals of Audio Technology
4 Units
Prerequisites: REC 100, 103 and 140.
This course is an introduction to audio technologies and recording techniques. Units include computer basics for audio production, the production console, microphones, digital recording systems, signal processing, studio techniques. 54 lecture hours, 72 lab hours.

REC 115
Recording Studio Workshop I
4 Units
Prerequisites: REC 100, 103 and 140.
This applied workshop course provides an introduction to basic audio hardware, software and recording techniques. Units include digital audio workstation set-up and operation, basic microphone techniques, software and hardware-based recording and mixing. 54 lecture hours, 72 lab hours.

REC 125
Digital Audio Technology I
3 Units
Prerequisites: REC 100, 103 and 140 or have passed a Multiple Measures Skills assessment.
Strongly recommended: SPCH 100.
This course is the study and implementation of MIDI technology in the audio recording industry. The course covers standard software sequencers, controllers, modules, soft-synths and applications of the technology in the industry. 54 lecture hours, 36 lab hours.

REC 135
Live Sound Reinforcement
4 Units
Corequisite: Successful completion of REC 105 or THEA 120.
This course focuses on the basic elements of sound reinforcement, acoustics, equalization, microphone placement, and mixing techniques. The major emphasis is on the acoustics, speaker and microphone placement and the effects on the final sonic product. 54 lecture hours, 72 lab hours arranged.

REC 140
Music Theory for Engineers
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An introductory course in music theory for the Recording Technology major. A study of the elements of music including melody, rhythm, chords, musical forms, and related concepts. Music notation, terminology, rehearsal techniques and score reading is emphasized. 54 lecture hours.

REC 145
Critical Listening Skills for Engineers
3 Units
Prerequisites: REC 100, 103 and 140.
Corequisites: REC 105, 115, 125, and 135.
A course in aural skills development for recording engineers. This class will focus on music, acoustic and electronic timbres, general instrument ranges and sonic properties, blend, balance, equalization, panning, reverb, compression, limiting and other tools used in the recording process. 54 lecture hours.

REC 150
Fundamentals of Audio Technology II
4 Units
Prerequisite: REC 100.
Signal processing, equalization, reverb, variable gain amplifiers, mixing techniques, mastering procedures, physical and psycho-acoustics, and sweetening. 54 lecture hours, 72 lab hours.

REC 190
Music Theory for Engineers II
3 Units
Prerequisite: REC 100.
This course includes the application of melody, chords, chord progressions, modality and related concepts, and music notation/score reading to the recording process. 54 lecture hours.

REC 200
Intermediate Audio Technology
4 Units
Prerequisite: REC 100.
Units include systems and procedures of digital audio recording, noise reduction systems, sampling and quantizing, D-A conversion, oversampling and error correction, multi-track recorder alignment and basic maintenance procedures. 54 lecture hours, 72 lab hours.

REC 205
Advanced Audio Technology
4 Units
Prerequisites: REC 105, 115, 125, 135, and 145.
This course is an advanced study of new technologies and techniques in multi-track recording, editing and mixing, as well as surround recording and mixing for post-production. 54 lecture hours, 72 lab hours.

REC 215
Recording Studio Workshop II
4 Units
Prerequisites: REC 105, 115, 125, 135, and 145.
Corequisites: REC 205, 225, 235, and 245.
This course is a project-based course intended to solidify the core principles of audio. Projects will include recording, mixing and mastering, post-production and surround mixing techniques. 54 lecture hours, 72 lab hours.

REC 225
Digital Audio Technology II
4 Units
Prerequisites: REC 105, 115, 125, 135, and 145.
This course focuses on the detailed workings of digital audio as a whole, and specifically on the ProTools platform. This is a detailed class in all aspects of digital audio inclusive of tracking, mixing, repair techniques, and plug-ins. 54 lecture hours, 72 lab hours.

REC 235
Acoustics for Engineers
3 Units
Prerequisites: REC 105, 115, 125, 135, and 145.
Corequisites: REC 205, 215, 225, and 245.
This course is a study of Acoustics principles and the physics of sound. It includes sound propagation, hearing and sound perception, room resonances, acoustic calculations, studio design and acoustical treatments. 54 lecture hours.

REC 245
Music Business/ Audio Careers
3 Units
Prerequisites: REC 105, 115, 125, 135, and 145.
This is a survey focusing on the practices and procedures of record companies, publishing companies, performing rights societies, and unions. The course will also study the processes of record and film production, as well as, career opportunities in these fields. Also includes an introduction to further courses of study in a targeted audio field. 54 lecture hours.

REC 255
Advanced Live Sound Reinforcement
4 Units
Prerequisite: REC 135.
Strongly recommended: READ 099 if required by reading placement exam.
SOC 118
Minories in America
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course gives an overview of the psychological, social, economic, and political aspects of minority groups in contemporary American culture. It will emphasize the relationships between these groups and the dominate culture. 54 lecture hours. CSU;UC

SOC 122
Introduction to Latino Studies
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An analysis of what it means to be Latino. An interdisciplinary course, focusing on the study of the psychological, social, political, and economic heritage of the Latino. Emphasis on examination of how ethic groups are organized, and how they influence others and in turn are influenced. 54 lecture hours. CSU;UC

SOC 201H
Introduction to Sociology/Honors
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Strongly recommended: Member in good standing of the Citrus College Honors Program. Recommendation from an Honors Instructor.
An emphasis is placed on an in-depth, critical study of the basic structure of human society, the main forces that hold groups together or weaken them, conditions that transform social life, and basic social concepts. Students are expected to work and participate at an honors level which includes, strong critical thinking skills through analysis of sociological readings, presentation, and leadership skills demonstrated through class participation/presentation, and service learning in the community. 54 lecture hours. CSU;UC

SOC 202
Contemporary Social Problems
3 Units
Emphasis is placed on American society and social problems. Special attention is given to the causes and effects of social problems. Course content includes research, field observation studies, seminar discussion with special resource professionals. 54 lecture hours. CSU;UC

SOC 203
Criminology
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A study of the theories of why people commit crime. A critique of the controversy between the Equity Model (Punishment) and the Justice System in the U.S. including enforcement, courts and corrections as well as alternatives such as probation and parole. 54 lecture hours. CSU;UC

SOC 216
Sex and Gender in a Cross Cultural Perspective
3 Units
Strongly recommended: ANTH 210 and SOC 201. Also, READ 099 if required by reading placement exam or if required by reading level.
A cross-cultural look at the concepts of sex and gender in different groups. The course will focus on attitudes, beliefs, and socialization techniques. Theories behind the formation of gender will be explored. Both Anthropological and Sociological terms and concepts will be utilized for a cross disciplinary approach. 54 lecture hours. CSU;UC

Honors Presentation Seminar
1 Unit
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Strongly recommended: Member in good standing of the Citrus College Honors Program. Recommendation from an Honors Instructor.
A course designed to help honors students further their research skills, professional presentation skills, and to promote transfer. Research topics from previous honors classes will be enhanced with further research and presented in a professional manner in class. Materials will also be submitted to local honors conferences for presentation to peers. Honors students should be in good standing and must be recommended by an honors professor. 18 lecture hours. CSU

Social Sciences Courses

SOC 100
Principles of Leadership
3 Units
Grade or P/NP
Strongly recommended: ENGL 100.
A course in the various aspects of leadership in the college student government setting. Enrollment is open to all students. It is recommended that students be eligible for ENGL 100 prior to enrollment in this course. This course may be taken two times. 54 lecture hours, 18 lab hours. CSU

or if required by reading level.
This course focuses on advanced concepts in sound reinforcement; advanced mixing skills, system maintenance and troubleshooting; sound system design for different types of venues, audio editing for live applications and live recording. 54 lecture hours, 72 lab hours arranged.

REC 260
Recording Studio Workshop IV
3 Units
Grade or P/NP
Prerequisite: REC 100.
Topics include final production techniques, digital recording and computerized audio production, and CD mastering techniques. 18 lecture hours, 108 lab hours.

REC 270
Producing for Recording Engineers
3 Units
Grade or P/NP
Prerequisite: REC 100.
An advanced course in the study and implementation of production techniques for albums, jingles, film/movies, and related audio products. Students will develop selected projects from their initial concept to finished products. 54 lecture hours.

Social Sciences (Social Sciences Department)
The program is unique in that one of its goals is to ensure the continuation of quality student representation in the participatory decision making efforts of the district. The program seeks to instill within its students a practical sense of the dynamics of leadership within an organization and some of the techniques that leaders utilize to enhance the effectiveness of the group as well as how to run meetings through the proper use of parliamentary procedure. In addition, the program places a heavy emphasis on self-knowledge based on reflection as the cornerstone of leadership.

Sociology Courses

SOC 114
Marriage, Family and Intimate Relations
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A consideration of the sociological and psychological factors which influence present day marriages. Course includes seminar discussions oriented toward understanding these influences as they relate to the individual. 54 lecture hours. CSU;UC

SOC 203
Criminology
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A study of the theories of why people commit crime. A critique of the controversy between the Equity Model (Punishment) and the Justice System in the U.S. including enforcement, courts and corrections as well as alternatives such as probation and parole. 54 lecture hours. CSU;UC

SOC 216
Sex and Gender in a Cross Cultural Perspective
3 Units
Strongly recommended: ANTH 210 and SOC 201. Also, READ 099 if required by reading placement exam or if required by reading level.
A cross-cultural look at the concepts of sex and gender in different groups. The course will focus on attitudes, beliefs, and socialization techniques. Theories behind the formation of gender will be explored. Both Anthropological and Sociological terms and concepts will be utilized for a cross disciplinary approach. 54 lecture hours. CSU;UC

Honors Presentation Seminar
1 Unit
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Strongly recommended: Member in good standing of the Citrus College Honors Program. Recommendation from an Honors Instructor.
A course designed to help honors students further their research skills, professional presentation skills, and to promote transfer. Research topics from previous honors classes will be enhanced with further research and presented in a professional manner in class. Materials will also be submitted to local honors conferences for presentation to peers. Honors students should be in good standing and must be recommended by an honors professor. 18 lecture hours. CSU

Social Sciences Courses

SOC 100
Principles of Leadership
3 Units
Grade or P/NP
Strongly recommended: ENGL 100.
A course in the various aspects of leadership in the college student government setting. Enrollment is open to all students. It is recommended that students be eligible for ENGL 100 prior to enrollment in this course. This course may be taken two times. 54 lecture hours, 18 lab hours. CSU
SOCS 101
Student Government
3 Units
Grade or P/NP
Prerequisite: Election or appointment to an ASCC office.
A course in various aspects of leadership with emphasis on practical application in the community college student government setting. Enrollment is limited to and required of students who hold ASCC office. This course may be taken four times. 36 lecture hours, 54 lab hours. CSU

SOCS 102
Student Government
3 Units
Prerequisite: Successful completion of SOCS 101 at least three times. Election or appointment to an ASCC Executive Board office.
A course in various aspects of leadership and leadership mentoring with an emphasis on practical application in the community college student government setting. Enrollment is limited to and required of students who hold ASCC office who have successfully completed SOCS 101 three times. This course may be taken two times. 36 lecture hours, 48 lab hours. CSU

Spanish
(Foreign Language Department)
The Foreign Languages program offers four semesters of proficiency-based instruction in listening, speaking, reading, and writing Spanish, French, German, and Japanese. Areas of study include beginning and intermediate vocabulary, grammar and syntax, pronunciation, and cultural understanding. The program combines classroom lectures, guided practice, and a variety of communicative activities in the target language, with individual work in the language lab using various media.

Spanish Courses

SPAN 101
Spanish I
5 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course in elementary Spanish grammar, vocabulary, and pronunciation which focuses on understanding, speaking, reading, and writing (including spelling) simple Spanish and serves as an introduction to the geography, history, and culture of the Spanish-speaking world. 90 lecture hours, 18 lab hours arranged. CSU/UC

SPAN 102
Spanish II
5 Units
Grade or P/NP
Prerequisite: Completion of SPAN 101 with min. grade of C or two years of high school Spanish.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A further study of elementary Spanish grammar and vocabulary which develops understanding, speaking, reading and writing skills. Includes additional study of the cultural heritage of Spain and Latin America. 90 lecture hours, 18 lab hours arranged. CSU/UC

SPAN 127
Spanish Civilization
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Spanish Civilization provides an interdisciplinary global understanding of the culture and history of Spain. The course critically analyzes contemporary Spanish society by examining the social and historical traditions and institutions that shape the Spanish way of life in the 20th century. This course is the same as HIST 127. 54 lecture hours. CSU/UC

SPAN 140
Beginning Conversational Spanish
3 Units
Grade or P/NP
Prerequisite: SPAN 101 or one year of high school Spanish.
This course is designed for students who wish to improve their oral speaking skills and expand their vocabulary in Spanish. 54 lecture hours. CSU

SPAN 141
Intermediate Conversational Spanish
3 Units
Grade or P/NP
Prerequisite: SPAN 102 or two years of high school Spanish.
This course is designed for students who wish to build on and improve their oral speaking skills in Spanish. 54 lecture hours. CSU

SPAN 150
Spanish for Public Service Personnel
3 Units
Grade or P/NP
Spanish 150 emphasizes basic Spanish for public service personnel; especially recommended for students in the fields of elementary/secondary education, nursing, fire science, police science, emergency medical personnel and related vocational areas. This course will enable students to acquire practical, working knowledge of Spanish with a vocabulary suitable to the student’s areas of specialization. 54 lecture hours.

SPAN 201
Spanish III
5 Units
Prerequisite: SPAN 102 or three years of high school Spanish.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This intermediate level course is a study of the Spanish language and Spanish-speaking cultures, focusing on intermediate level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in Spanish. Reading strategies and fundamentals of formal composition are introduced in conjunction with short, level-appropriate literary selections. Class is largely conducted in Spanish. 90 lecture hours. CSU/UC

SPAN 202
Spanish IV
5 Units
Prerequisite: SPAN 201 or four years of high school Spanish.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course emphasizing the development of effective skills for reading, understanding and interpreting more advanced readings in Spanish and Latin American literature and culture. Extensive practice in oral and written expression at the intermediate high level is provided. Grammatical concepts are thoroughly reviewed and expanded. 90 lecture hours. CSU/UC

SPAN 210
Intermediate Spanish for Speakers of Spanish
5 Units
Grade or P/NP
Prerequisite: Oral fluency in Spanish.
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A course designed to help students who are fluent in spoken, informal Spanish, but who need to improve writing, reading and grammar skills. Emphasis on acquiring formal oral Spanish skills and a knowledge of Spanish and Latin American literature and culture. Equivalent to SPAN 201. 90 lecture hours. CSU/UC

SPAN 211
Reading and Composition for Speakers of Spanish II
5 Units
Grade or P/NP
Strongly recommended: SPAN 210 and fluency in oral Spanish. Also, READ 099 if required by reading placement exam or if required by reading level.
A course for students who are fluent speakers of Spanish but who need to practice and refine their writing skills and
formal oral skills. Reading in the literature of Spanish-speaking cultures. Review of grammar. 90 lecture hours. CSU;UC

Speech
(Language Arts Department)

The Speech Communication program fosters personal and professional success, which depends on effective, ethical and purposeful communication skills. The program offers students a comprehensive introduction to the study and practical application of the Speech Communication discipline by providing an opportunity to improve oral and written communication skills.

Speech Courses
(See Also Communications)

SPCH 100
Interpersonal Communication
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Introduction to interpersonal communication: verbal and non-verbal face-to-face interactions; understanding messages sent and received; awareness and resolutions of communication barriers. 54 lecture hours. CSU

SPCH 101
Public Address
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An introductory course in speaking skills, including the selection, preparation, and delivery of speeches for various audiences and situations. Principles and methods are studied and practiced for the achievement of ethical, purposeful, and effective public speaking. 54 lecture hours. CSU;UC

SPCH 101H
Public Address/Honors
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An introductory course in theory and techniques of public speaking in a democratic society. Discovery, development, and criticism of ideas in public discourse through research, reasoning, organization, composition, presentation, and evaluation of informative and persuasive speeches. Principles and methods are studied and practiced for the achievement of ethical, purposeful, and effective public speaking. Semester speech presentation project required. 54 lecture hours. CSU;UC

SPCH 103
Argumentation and Debate
3 Units
Basic theories, principles, and methods for various levels and forms of argumentation and debate. Preparation and presentation of practice debates on current issues. 54 lecture hours. CSU;UC

SPCH 106
Small Group Communication
3 Units
Principles, techniques, and uses of discussion in contemporary society. Training and practice in informal group discussion, panel discussion, symposium and forum. Emphasis on collaborative decision-making. 54 lecture hours. CSU;UC

SPCH 210
Forensics
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
For students who desire to participate in various intercollegiate speech contests such as debate, oratory, extempore, impromptu, and oral interpretation. This course may be taken four times. 36 lecture hours, 54 lab hours. CSU

Theatre Arts
(Fine and Performing Arts Department)

Theatre Arts courses at Citrus College provide preparation in the various aspects of theatre practice: acting, directing, and technical theatre through involvement in productions staged each year in the Little Theatre and on the main stage. Students are prepared to continue their theatre studies at colleges and universities or to pursue careers in the theatre and related fields.

Theatre Arts Courses

THEA 101
Introduction to Theatre Arts
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
Background and foundation for appreciation and evaluation of theatre arts. Course will include a study of dramatic structure, history of the theatre, plays and playwrights, and a study of contemporary theatre production. 54 lecture hours per week. CSU;UC

THEA 104
Voice and Movement for the Actor
3 Units
Grade or P/NP
Strongly recommended: Concurrent enrollment in THEA 201. Also, READ 099 if required by reading placement exam or if required by reading level.
A course in vocal anatomy, physiology, and phonetics as well as the exploration of how the voice and body work. Designed to develop the actor’s awareness, relaxation, flexibility, and responsiveness in order to communicate openly and expressively. This course may be taken four times. 54 lecture hours, 36 lab hours. CSU;UC

THEA 120
Introduction to Technical Theatre
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
An introduction to the equipment, processes, and techniques used in the production of stage settings, props, sound, lighting, and costumes. 36 lecture hours, 54 lab hours. CSU;UC

THEA 125
Technical Production Laboratory
2 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
A laboratory in the technical production of stage scenery, lighting, sound, props, costume or makeup. This course may be taken four times. 18 lecture hours, 90 lab hours arranged. CSU;UC

THEA 130
Introduction to Theatrical Scenery
3 Units
Strongly recommended: THEA 120. Also, READ 099 if required by reading placement exam.
A study of the equipment, processes and techniques used in planning and executing scenery for the stage. 36 lecture hours, 54 lab hours. CSU;UC

THEA 140
Introduction to Stage Lighting
3 Units
Grade or P/NP
Prerequisite: THEA 120.
A study of the equipment, processes and techniques used in lighting for the stage. Course includes basic electricity, color theory, lighting design, controls, and safety procedures. 36 lecture hours, 18 lab hours, 36 lab hours arranged. CSU;UC

THEA 150
Introduction to Intelligent Lighting Systems for Theatre
3 Units
Strongly recommended: Successful completion of THEA 140 and 160. Also, READ 099 if required by reading
THEA 160
Computer Aided Design for Theatre
4 Units
Strongly recommended: Successful completion of THEA 120 and 130. Also, READ 099 if required by reading placement exam or if required by reading level.

Entertainment design and technical production with an emphasis on the computer as a design and drafting tool. Applications include Vectorworks and Sketch-up. This course may be taken three times. 54 lecture hours, 54 lab hours. CSU

THEA 200
The Art of the Theatre
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Introduction to theatre as an art form involving the inter-related processes of all elements of theatre with the primary focus being on script analysis. Includes the study of plays throughout history with emphasis on dramatic analysis and cultural significance. This course may be taken two times. 54 lecture hours, 36 lab hours. CSU

THEA 201
Acting Fundamentals I
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A beginning level performance class with an introduction to the Stanislavski Method of acting. Provides a foundation in acting through a study of improvisation, vocal technique, historical concepts, and theory through scene and monologue work. This course may be taken four times. 54 lecture hours, 36 lab hours arranged. CSU

THEA 202
Acting Fundamentals II
3 Units
Grade or P/NP
Prerequisite: THEA 201 or Audition.

An extension of the concepts as introduced in THEA 201. A more in-depth approach to contemporary theatre using the Stanislavski method as well as other methods of acting in character and scene study and analysis. Students may perform in an Acting Showcase at semester’s end. This course may be taken four times. 54 lecture hours, 36 lab hours arranged. CSU

THEA 204
Stage and Screenwriting
3 Units
Grade or P/NP
Strongly recommended: ENG 101.

Beginning playwrights and screenwriters discover the basic craft of creating scripts for stage, screen, and television. The class will concentrate on current work and/or ideas and examples will be drawn from scripts, videos, and films that have shaped our modern consciousness. This course may be taken four times. 36 lecture hours, 18 lab hours arranged. CSU

THEA 210
Rehearsal and Performance
2 Units
Grade or P/NP
Prerequisite: Audition.

Participation in the production of a full-length play for public performance. This course may be taken four times. 18 lab hours, 126 lab hours arranged. CSU

THEA 211
Acting for the Camera
3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The practice and study of the fundamental techniques required in acting before the camera; blocking; memorization and audition techniques along with the introduction of quality head shots and resumes. This course may be taken four times. 54 lecture hours, 36 lab hours arranged. CSU

THEA 220
Rehearsal and Performance (Styles)
2 Units
Grade or P/NP
Prerequisite: THEA 210.

Continued and more in-depth participation in the production of full-length play for public performance. This course may be taken four times. 18 lab hours, 126 lab hours arranged. CSU

THEA 241
Fundamentals of Stage Direction
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A study of the director’s approach to play analysis, casting, and rehearsal technique leading to a performance. Students will receive practical experience in directing short scenes. This course may be taken two times. 36 lecture hours, 54 lab hours arranged. CSU

THEA 245
Stage Management
3 Units
Grade or P/NP
Prerequisite: THEA 120.

A study of the stage manager’s duties and relationship to the director, actors and technicians. 36 lecture hours, 54 lab hours arranged. CSU

THEA 250
Theatre Appreciation
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introduction to methods of evaluating theatre in performance. Students will view and critique at least five off campus plays per semester. Transportation will be provided. A transportation fee may be charged. This course may be taken four times. 36 lecture hours, 18 lab hours, 36 lab hours arranged. CSU

THEA 260
Introduction to Show Production Systems
3 Units

Strongly recommended: Successful completion of THEA 130, THEA 140, THEA 160, REC 135, and READ 099. Corequisites: Concurrent enrollment required of THEA 150 and THEA 245 or by Instructor Approval.

The study of show production systems. The function and inter-relation of complete entertainment staging systems in a single environment including: physical staging systems, projection systems, truss systems, lighting rig, sound rig, computer and show control methods and rigging, power and distribution, crew and performer safety and access, trouble shooting and maintenance. Includes a study of the technical and design challenges posed by a variety of venues including theatre, theme parks, exhibit and trade shows, conventions, and cruise lines. College level reading strongly recommended. 54 lecture hours, 36 lab hours arranged. CSU

THEA 284
Acting Shakespeare
3 Units
Grade or P/NP
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An exploration of Shakespeare’s plays and poetry through scene study, monologues, rehearsal, and performance. This course aims to introduce a process and technique for analyzing play scripts and poetry for performance. This course may be taken four times. 54 lecture hours, 36 lab hours. CSU
THEA 290
Citrus Theatre Company
3 Units
Grade or P/NP
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*
Preparation, rehearsal and public performance of college sponsored productions in an organized summer theatre company. Participants selected by application and audition. This course may be taken four times. 162 lab hours. CSU; UC

THEA 292
Special Techniques in Acting
3 Units
Grade or P/NP
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*
Students will critically examine the Stanislavski Method of Acting and how it pertains to various acting styles. Examining stylized scenes and monologues from World Theatre will teach the student how the Method can be utilized in acting genres other than contemporary realism. College level READ 099 is strongly advised for success in this course. This course may be taken four times. 54 lecture hours, 18 lab hours. CSU; UC

THEA 293
Theatre for Young Audiences
3 Units
Grade or P/NP
*Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.*
An introduction to theatre for child audiences. Students required to participate in a theatrical production for young audiences and lead children in creative dramatics. May include workshops. Along with on campus performances, may include a tour of a production. In-class and out-of-class rehearsals may be necessary to complete production. This course may be taken four times. 54 lecture hours, 36 lab hours. CSU

THEA 294
Shakespeare in Production
3 Units
Grade or P/NP
*Strongly recommended: THEA 284.*
An introduction to theatre for child audiences. Students required to participate in a theatrical production for young audiences and lead children in creative dramatics. May include workshops along with on campus performances, may include a tour of a production. In-class and out-of-class rehearsals may be necessary to complete production. This course may be taken four times. 54 lecture hours, 42 lab hours arranged. CSU

Cooperative Education Courses

THEA 698A
Cooperative Education
1 Unit
Grade or P/NP
*Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.*
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Theatre Arts at their place of volunteer employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

THEA 698B
Cooperative Education
2 Units
Grade or P/NP
*Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.*
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Theatre Arts at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

THEA 698C
Cooperative Education
3 Units
Grade or P/NP
*Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.*
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Theatre Arts at their place of volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

THEA 698D
Cooperative Education
4 Units
Grade or P/NP
*Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.*
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Theatre Arts at their place of volunteer employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

THEA 699A
Cooperative Education
1 Unit
Grade or P/NP
*Enrollment in a minimum of seven units of credit including Cooperative Education during the regular semester. During the summer the student must be enrolled in at least one other class.*
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Theatre Arts at their place of paid employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

THEA 699B
Cooperative Education
2 Units
Grade or P/NP
*Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.*
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Theatre Arts at their place of paid employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.

THEA 699C
Cooperative Education
3 Units
Grade or P/NP
*Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.*
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Theatre Arts at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.

THEA 699D
Cooperative Education
4 Units
Grade or P/NP
*Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. During the summer the student must be enrolled in at least one other class.*
A course designed to assist students in planning and accomplishing meaningful learning objectives related to Theatre Arts at their place of paid employment or training sites. This course may be taken four times. 300 lab hours arranged per semester.
**Water Technology (Public Services Department)**

This program is designed to prepare students who wish to seek employment in the public water supply industry or qualify for a more responsible position within the industry. These courses will be helpful to students who wish to prepare for the T1, T2, T3, T4 and T5 Water Treatment Operator and D1, D2, D3, D4, and D5 Water Distribution Operator certification examinations given by the California Department of Public Health. Coursework also provides contact hours for Operator certification maintenance requirements.

**Water Technology Courses**

**WATR 150 Introduction to Water Systems**
3 Units  Grade or P/NP  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A basic course in water distribution and treatment covering water quality control practices, water sources, public health aspects of water regulations, supply, water treatment arithmetic, chemical treatment, filtration, corrosion, disinfection, tastes and odors in water, water system operation and maintenance, valves, pipes, pumps, and meters. The material covered in this course will be helpful to those preparing for the D1 and D2 Water Distribution Operator's Certificate examinations and the T1 Water Treatment Operator's Certificate examination given by the State of California. 54 lecture hours.

**WATR 151 Water Resources and Distribution I**
3 Units  Grade or P/NP  
Strongly recommended: MATH 130

A course designed for water distribution systems operators.

This course continues WATR 150. Topics include: water production, types of reservoirs, water lines, pumps, water chemistry, water treatment, arithmetic, chemical treatment, appurtenances, method of installation, repair of facilities, back up theory, and administrative functions behind the distribution system. This course prepares the student for the D2 and D3 Water Distribution Operator's examinations. 54 lecture hours.

**WATR 152 Cross-Connection Control**
3 Units  Grade or P/NP  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Introduces the principles of cross connection control: identifying a cross connection and the type of backflow prevention required; recycled water; recognizing the responsibilities of the water purveyor, the health agency, and the consumer; and learning basic maintenance and backflow prevention device testing. This course will prepare the student for A.W.W.A. and/or the Los Angeles County Certification. 54 lecture hours.

**WATR 153 Water Resources and Distribution II**
3 Units  Grade or P/NP  
Strongly recommended: MATH 130 and WATR 150.

A course in practical water supply hydraulics with emphasis on the basic principles of hydraulics. The purpose of the course is to clarify pressure, head, buoyancy, friction loss, forces, velocity of flow and size capacity relationship of distribution systems. The course includes the study of pump characteristics, sizing of pumps, water chemistry, water treatment, arithmetic, chemical treatment, and efficiency test procedures. Typical calculations include line loss in series and parallel pipe systems, residual pressure, forces on thrust blocks, and horsepower requirements for pumps. This course prepares the student for the D3, D4, and D5 Water Distribution Operator's examinations. 54 lecture hours.

**WATR 154 Water Distribution Operator Exam Preparation**
1 Unit  Grade or P/NP  
Strongly recommended: Successful completion of WATR 150 Student Learning Outcomes or possession of a D-1 Distribution Operation Certification.

A course in drinking water distribution designed as a review for water distribution operators preparing to take the California Department of Public Health D2 or D3 examinations. 18 lecture hours.

**WATR 155 Water Distribution Operator Exam Preparation**
3 Units  Grade or P/NP  
Strongly recommended: MATH 130

Course covering water resources, water quality, unit operations of water treatment, public health requirements, and the basics of water chemistry and aquatic microbiology. Prepares students for the T1, T2, and T3 Water Treatment Operator's Certificate examinations given by the State of California. 54 lecture hours.

**WATR 156 Water Treatment I**
3 Units  Grade or P/NP  
Strongly recommended: MATH 130 AND WATR 150.

Course covering water resources, water quality, unit operations of water treatment, public health requirements, and the basics of water chemistry and aquatic microbiology. Prepares students for the T1, T2, and T3 Water Treatment Operator's Certificate examinations given by the State of California. 54 lecture hours.

**WATR 157 Water Treatment II**
3 Units  Grade or P/NP  
Strongly recommended: WATR 156.

A course covering water resources, water quality, unit operations of advanced water treatment systems, public health, water chemistry and microbiology, and fluoridation. Prepares students for T3, T4, and T5 Water Treatment Operator's Certificate examinations required by the California Department of Public Health. 54 hours lecture.

**WATR 162 Water Conservation**
3 Units  Grade or P/NP  
This class provides an overview and technical information on the role of the water conservation coordinator in the public water supply industry. Topics include: water supply and cycle, structure and operations of utilities, regulatory agencies, best management practices, water conservation programs and technologies. This class will help the student prepare for the AWWA grade one Water Conservation Practitioner Certification. 54 lecture hours.

**WATR 165 Water Systems Operations and Technology Update**
1 Unit  Grade or P/NP  
Strongly recommended: WATR 151 or WATR 156.

A course in drinking water distribution and treatment designed to update current system operators on the latest improvements in technology and upcoming regulations in the water supply field. Students will be introduced to new technologies and methods used in water systems today and will be given valuable information on the latest adopted and pending regulations from CDHS, OEHHA, SWRCB, LARWQCB, AQMD, and CalOSHA. The course will be helpful to those in need of contact hours to fulfill California Department of Health Services requirements for renewal of Distribution and/or Treatment Operator Certification. This course may be taken three times. 18 lecture hours.
Continuing Education and Noncredit Education

Citrus College Continuing Education offers lifelong personal and professional development opportunities. We provide classes to sharpen your professional skills or to help you learn new activities you can enjoy in your leisure time. Continuing education classes provide opportunities for learning that enrich the lives of individuals and improve the quality of living in our community.

Noncredit education is designed to supplement students’ continued growth and job skills development through classes that include basic skills, career development, health and fitness, vocational preparation and job retraining. Enrolment in noncredit classes is free and continues throughout the school year. All non-credit classes are subject to budget and attendance.

Potential students who are undecided about college may begin or continue their college experience with noncredit classes. Counselors are available to enroll students and provide information.

Computerized instruction is available for students who want to strengthen their basic math, reading and writing skills. Noncredit education also provides English as a Second Language (ESL) classes in the traditional classroom format for limited English speaking students.

Community Education

Citrus College Community Education offers lifelong personal and professional development learning opportunities to members of the community. Moderately-priced classes, workshops, seminars and activities are available for persons who want to develop their professional skills, start or grow a business, enrich their cultural experiences, their lives and their relationships, or participate in entertainment and recreational activities.

Community Education classes, activities and events are available on days and at times that meet the needs of today’s active adults. Class lengths vary from a few hours to several meeting dates.

The majority of these classes do not provide college credit; however, a few classes offer continuing education credits that are required in some professions.

Community Education classes are supported by fees collected from course participants. Class schedules, published three times per year, are mailed to Citrus Community College District residents and can be accessed online at www.citruscollege.edu/ce.
College Policies and Notices: Rules for Safety and Success

Academic Freedom Statement
It is the policy of the Citrus Community College District to support the principles of academic freedom, built upon the free expression and exchange of ideas that are inherent in the search for scholarly truth and upon which a free and democratic society depends. The District affirms the use of a variety of teaching methodologies to fulfill its obligation to raise difficult and meaningful questions in the educational development of students. Faculty are entitled to freely discuss issues germane to their subject matter. This freedom involves the right to introduce controversial topics, as long as the manner of presentation involves objective reasoning and rational discussion.

Academic freedom must be balanced with the obligation of the District to protect the right of students to learn in an environment characterized by civility, open inquiry, and freedom from unlawful discrimination. While faculty have the right to present ideas and conclusions which they believe to be in accord with available evidence, they also have the responsibility to acknowledge the existence of different opinions and to respect the right of others to hold those views. Faculty and students have a responsibility to engage in teaching and learning that honors and respects divergent viewpoints that are grounded in cultures of reason, logic, evidence and responsible scholarship.

When faculty (or any other District employees) speak or write as citizens, care should be taken to avoid the representation of any personal view as that of the District or of Citrus College.

Academic Honesty
See Code of Conduct

Athletic Eligibility
See Athletics: The Fighting Owls section

BP 4220 Drug Free Environment and Drug Prevention Program

The college shall be free from all illegal drugs and from the unlawful possession, use or distribution of illicit drugs and alcohol by students and employees.

The unlawful manufacture, distribution, dispensing, possession or use of alcohol or any controlled substance is prohibited on college property; in any facility operated by the college; during college-sponsored field trips, activities, or workshops; and in any college owned vehicle.

All employees are required to comply with this policy as a condition of their employment and continued employment.

Any student or employee who violates this policy will be subject to disciplinary action, which may include referral to an appropriate rehabilitation program, suspension, demotion, expulsion or dismissal. Any employee convicted under a criminal drug and/or alcohol statute for conduct in the workplace must report this conviction within five days to the superintendent/president.

The superintendent/president shall assure that the college distributes annually to each student the information required by the Drug-Free Schools and Communities Act Amendments of 1989 and complies with other requirements of the Act. Approved April 28, 2004.

Campus Disturbances
The willful disturbance of classes, college activities, or procedures is a misdemeanor. (California Penal Code, Section 626.6)

Cheating and Plagiarism
See Code of Conduct

Code of Conduct
Those representing Citrus College at any conference, trip or athletic event will observe this Code of Conduct.

Basic Responsibilities on Conferences, Trips or Athletic Events
1. Participants, students, and advisers shall recognize their responsibility for proper conduct during a trip to or from and at the conference or event.

2. Advisers shall recognize their responsibility for the actions of their students. Each student will be directly responsible to the adviser.

3. Rules established by the host organization or location must be observed.

4. Prior to the conference or trip, the student participants and advisers shall have read the Standards of Student Conduct.

5. Attendance at all meetings, including meals, is considered
part of the participant's responsibility while at a conference unless first excused by the advisers.

6. No student may officially or unofficially represent Citrus College at any event away from the campus without an adviser or special permission to be without an adviser, granted by the Citrus College administration.

**Standards of Conduct**
The superintendent/president shall establish procedures for the imposition of discipline of students in accordance with the due process requirements of state and federal regulations.

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

The Board of Trustees shall consider any recommendation for a student's expulsion received from the superintendent/president. The board shall consider an expulsion recommendation in closed session unless the student requests that the matter be considered in a public meeting. Final action by the Board on the expulsion shall be taken at a public meeting.

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

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

1. Causing, attempting to cause, or threatening to cause physical injury to another person;

2. Possession, sale or otherwise furnishing any firearm, knife, explosive, or other dangerous object including, but not limited to, any facsimile firearm, knife, or explosive, unless, in the case of possession of any object of this type, the student has obtained prior written permission to possess the item from a District employee with the concurrence of the Superintendent/President;

3. Unlawful possession, use, sale, offer to sell, furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging, or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5;

4. Committing or attempting to commit robbery or extortion;

5. Causing or attempting to cause damage to District property or to private property on campus;

6. Stealing or attempting to steal District property or private property on campus, or knowingly receiving stolen District property or private property on campus;

7. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the College or the District;

8. Committing unlawful sexual harassment as defined by pertinent law;

9. Engaging in unlawful harassing or discriminatory behavior based on race, sex, (i.e., gender) religion, age, national origin, disability, or any other protected characteristic or classification, as defined by pertinent law;

10. Willful misconduct which results in injury or death to a student or to District personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the District or on campus;

11. Disruptive behavior, willful disobedience, or the open and persistent defiance of the authority of, or persistent abuse of, District personnel;

12. Cheating, plagiarism (including plagiarism in student publications), or engaging in other academic dishonesty;

13. Dishonesty; forgery; alteration or misuse of District documents, records or identification; or knowingly furnishing false information to the District;

14. Unauthorized entry upon or use of District facilities;

15. Lewd, indecent or obscene conduct on District-owned or controlled property, or at District-sponsored or supervised functions;

16. Engaging in expression which is obscene; libelous or slanderous; or which so
incites students as to create a clear and present danger of the commission of unlawful acts on District premises;

17. Violation of lawful district administrative procedures, or the substantial disruption of the orderly operation of the District;

18. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct;

19. 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 Board Policy or Administrative Procedure;

20. Violation of college rules or regulations including campus policies concerning the student organizations, the use of college facilities, or the time, place and manner of public expression;

21. Persistent violation of classroom standards of conduct as established by the instructor;

22. Any other cause not listed above which is identified as “good cause” by the Education Code.

Driving and Parking
The Citrus Community College District Board of Trustees have adopted traffic and parking regulations in accordance with the California Vehicle Code. Refer to the current Schedule of Classes for details.

Grievance Procedures
Student grievance procedures provide every student with a prompt and equitable means of seeking an appropriate resolution for any alleged violation of his or her rights. The rights protected under these procedures include, but are not limited to, those guaranteed by the established rules and regulations of the Citrus Community College District and the Education Code of the State of California.

Students are advised that grievances must be filed within 20 school days of the occurrence. The procedures do not apply to the employment rights of students. Sexual harassment or discrimination complaints are made to the Office of Human Resources.

Citrus College students are, by law, protected against capricious, arbitrary, unreasonable, unlawful, false, malicious or professionally-inappropriate evaluations or actions by an employee of Citrus College.

For information regarding student grievance procedures, contact the Office of the Vice President of Student Services at (626) 914-8532.

Hazing
Hazing is prohibited in California schools. Violators may be punished by a fine not to exceed $500 or six months in jail.

Sexual Assault/Sexual Violence Policy
(Assembly Bill 1088)
No community can be totally risk-free in today's society. However, students, faculty, staff, and visitors can all work together to create an atmosphere which is as safe and crime-free as possible. Section 67385 of the Education Code requires that community college districts adopt and implement procedures to ensure prompt response to victims of sexual violence that occur on campus, as well as providing them with information regarding treatment options and services.

Citrus College takes the issue of sexual violence very seriously. The campus community is proactive in offering a safe environment for students and visitors. As a result, Citrus College offers informational and preventive programs to all students and staff to help prevent the risk of sexual violence on campus. This information can be found at www.citruscollege.edu/stdntsrv

Sexual assault is defined as any kind of unwanted sexual contact. This includes, but is not limited to: rape, forced sodomy, forced oral copulation, rape by a foreign object, sexual battery, threat of sexual assault and related conduct that threatens the health and safety of another person. Sexual violence may include sexual assault, rape, date rape, acquaintance rape, domestic violence, stalking, dating violence, forcing a person to watch/engage in pornography, harassment, exposing/flashing, voyeurism and/or fondling.

Any sexual violence or physical abuse, as defined by California law, committed by an employee, student, or member of the public; occurring on college-owned or controlled property, at college-sponsored or supervised functions; or related to or arising from college attendance or activity is a violation of district policies and regulations. This behavior is subject to all applicable punishment, including criminal and/or civil
prosecution and employee or student discipline procedures.

Any person who has been the victim of sexual violence or who has information regarding sexual violence on campus is strongly urged to call 911 or the police department or sheriff in the city where the crime took place and report the situation as soon as possible. Persons who are the victims of sexual assault on campus may:

1. Contact the following campus departments:
   - **Campus Security**
     24 hours a day, 7 days a week
     Direct number: (626) 914-8611
     On Campus: Extension 8611
     From Campus Pay Phones: *11
   - **Campus Health Center**, during normal business hours (626) 914-8671
2. Go directly to a hospital emergency room for medical care.
3. Contact the many community resources that provide support services to victims of sexual violence. These local agencies include, but are not limited to:
   - **Project SISTER Sexual Assault Crisis & Prevention Services** offers immediate crisis assistance in seven languages seven days a week. They also provide accompaniment/advocacy services in which trained volunteers support and advise survivors of sexual violence and child abuse at the hospital, police station, and during court appearances.

   **24-hour hotlines:**
   (909) 626-HELP (4357) or (626) 966-4155

   **House of Ruth** provides many services to victims of domestic violence, including emergency shelter, transitional shelter, legal advocacy and counseling/support groups.

   **24-hour hotline:** (909) 988-5559

   **National Sexual Assault Hotline:** (800) 656-HOPE (4673)

   **National Domestic Violence Hotline:** (800) 799-7233

   **Suicide and Rape 24-Hour Emergency Services National Hotline:** (800) 333-4444

4. If the perpetrator is a Citrus College student, an administrative complaint may be filed with the vice president of student services, (626) 914-8532.

**Sexual Harassment**

It is the policy of the college to provide a workplace and study environment free of sexual harassment. All students should be aware that the college strongly disapproves of any conduct that constitutes sexual harassment and will take disciplinary measures to ensure compliance. All formal complaints will be investigated and appropriate action taken. Complaints should be reported to the human resources/staff diversity officer, 626-914-8830.

**Smoking on Campus**

See Substance Abuse

**Substance Abuse**

The Citrus Community College District prohibits the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees on college property, and as part of any college sponsored or sanctioned event. In addition, the use of tobacco is prohibited in all district buildings and vehicles. (Citrus Community College District Board Policy P-4220, Education Code 87335, Standards of Student Conduct, and U.S. Public Law 101-226).

Any student or employee in violation of this policy is subject to disciplinary action up to, and including, expulsion from college or termination from employment for violations of the standard code of conduct. The decision to take disciplinary action in any such instance rests with the Board of Trustees after consideration of the recommendation of the Superintendent/President.

**Notices**

**Campus Security**

The following are the criminal offenses which occurred on campus from January 1, 2005-December 31, 2007 and reported to the Security Office and public agencies:

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<thead>
<tr>
<th>Offense</th>
<th>05</th>
<th>06</th>
<th>07</th>
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<tbody>
<tr>
<td>Murder</td>
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</tr>
<tr>
<td>Manslaughter</td>
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<td>Sex Offense Force</td>
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<td>Sex Offense (Non Force)</td>
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<td>Robbery</td>
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<td>Aggravated Assault</td>
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<tr>
<td>Vehicle Theft</td>
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<td>Narcotics/Drug Offenses</td>
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<td>Alcohol Offense</td>
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<tr>
<td>Hate Crimes</td>
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**Registered Sex Offender Information**

Information concerning registered sex offenders may be obtained from the Glendora Police Department, 150 S. Glendora Avenue by calling 626-914-8250 or visiting [www.meganslaw.ca.gov](http://www.meganslaw.ca.gov).

Sex offenders are required to register with the police in the jurisdiction in which they reside.
Catalog Rights
Catalog rights are the specific set of general education and other graduation requirements, as established in the catalog for a specific year, which the student must satisfy to quality for a degree, certificate of achievement, etc.

The version of the catalog that is posted on the college website during the academic year of a student's enrollment is the catalog in effect.

Students may choose to qualify for graduation under the requirements in effect at:
- The time they entered the college
  or
- They may use the catalog thereafter, as long as the student maintains continuous enrollment.
- Continuous enrollment is attendance during every fall and spring semester after initial enrollment at Citrus College.

Continuous Resident
A student retains rights to follow catalog requirements for the year they entered Citrus College if, during every regular semester after initial enrollment he or she:
- Is enrolled in any credit class beyond the first four weeks
  or
- Receives a waiver, due to extenuating circumstances

Nondiscrimination Policy
Citrus Community College District does not discriminate on the basis of race, color, ancestry, national origin, sex, age (over 40), religious creed, marital status, medical condition (including cancer), physical disability (including HIV and AIDS), mental disability, sexual orientation or military status as a Vietnam-era veteran in any policies, procedures or practices.

In addition, it is the stated policy of Citrus Community College District that harassment is prohibited and that regular employees shall not be denied family care leave if eligible under the Fair Employment and Housing Act. All of these categories are protected by the following legislation: Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Fair Employment and Housing Act, California Government Code 12900 et seq., and the Americans with Disabilities Act of 1990.

Students who have questions or concerns about the nondiscrimination policy can contact the Human Resources/Staff Diversity Officer, the disabled access officer or the gender equity officer, 626-914-8830.

Open Enrollment
All courses, course sections, and classes offered by Citrus College are open for enrollment to any person who has been admitted to the college. Enrollment may be subject to any priority system that the college has established. Enrollment may also be limited to students meeting properly validated prerequisites and co-requisites, or due to other practical considerations such as exemptions set out in statute or regulation.

Public Safety
See Campus Security

Student Rights and Privacy Act
Citrus College student records are maintained in accordance with the Education Code, Title 5, California Civil Code, and the U.S. Patriot Act. Written student consent is required for access and release of information defined as educational records in the federal and state laws as described in Citrus College AP 5040.

A student’s directory information (student’s name, address, telephone number, date and place of birth, major field of study, enrollment status, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and most recent previous public or private school attended) may be released upon request unless the Admissions and Records Office receives written notification that a student reserves the right to authorize in writing, on an individual request basis, the access and release of the directory information. Such a notice of restriction will remain in effect until it is countermanded in writing. Additionally, the law provides that a student may request access to the college records which are personally identifiable to that student, and may challenge the accuracy or the appropriateness of retention of information in the college record.

Student Right-to-Know
In compliance with the Student Right-To-Know and Campus Security Act of 1990, it is the policy of the Citrus Community College District and Citrus College to make available its completion and transfer rates to all current and prospective students.

Student Right-To-Know (SRTK) refers to a Federally-mandated public disclosure of a college's Completion Rate and Transfer Rate. The intent of SRTK is to provide to the consumer a statistic of comparable effectiveness that they can use in the determination of college choice. All colleges nationwide are effectively required to participate in the disclosure of rates by January 2000.
SRTK is a "cohort" study; that is, a group of students who are first-time freshmen who are enrolled full-time and are degree-seeking is identified in a fall term and their outcomes are measured over a period of time. The outcomes that the two SRTK rates measure are Completion (the total number of students in the cohort who earn either a degree, a certificate, or who successfully completed a two-year-equivalent transfer-preparatory program) and Transfer (the total number of cohort non-completers who were identified as having enrolled in another institution). The tracking period of the cohorts is three (3) years, at which time the SRTK rates are calculated and made public.

SRTK Rates are derived and reported yearly on the IPEDS-GRS (Integrated Postsecondary Educational Data System-Graduation Rate Survey). The IPEDS-GRS also tracks part-time student cohorts over a six (6) year period; however, full-time cohort status after 3 years is the only basis for calculating SRTK rates.

Access to the Citrus College Student Right-To-Know Rates and further information about the rates and how they should be interpreted is available through the "Student Right-To-Know Information Clearinghouse web site" maintained by the Chancellor's Office, California Community Colleges at http://srtk.cccco.edu/index.asp

Questions concerning student's rights under the privacy act should be directed to the Admissions and Records Office, 626-914-8511.
## Faculty and Administrators

(Date of appointment follows name)

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<tr>
<th>Name</th>
<th>Date</th>
<th>Department</th>
<th>Education</th>
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<td>Abas, Audrey</td>
<td>1980</td>
<td>DSP&amp;S Counselor</td>
<td>B.A., M.A., University of Wyoming</td>
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<tr>
<td>Afzali, Ana</td>
<td>1997</td>
<td>Spanish</td>
<td>A.S., Westbrook College; B.A., University of Maryland; M.A. Ph.D., University of California, Los Angeles</td>
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<td>Allahbachayo, Salima</td>
<td>2009</td>
<td>Nursing</td>
<td>B.A., Aga Khan University; M.S., University of California, Los Angeles</td>
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<td>Allen, Ann</td>
<td>2005</td>
<td>Director of Child Development Center</td>
<td>B.S., California State University, Northridge; M.F.T., Phillips Graduate Institute; Ed.D., Nova Southeastern University</td>
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<td>Anderson, Brian</td>
<td>1999</td>
<td>Mathematics</td>
<td>B.S., Hofstra University; M.A., Claremont Graduate School</td>
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<td>Anson, Melanie</td>
<td>1988</td>
<td>Public Address/Speech</td>
<td>B.A., University of California, Los Angeles; M.A., Ph.D., University of Southern California</td>
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<td>Arredondo, Dora</td>
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<td>Dental Technology</td>
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<td>Economics</td>
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<td>A.A., Mount Saint Mary's College; B.S., University of Southern California; M.S. California State University, Long Beach</td>
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<td>Photography</td>
<td>A.A., Citrus College; B.A., California State University, Los Angeles</td>
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<td>Carver, Sally A.</td>
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<td>Cosmetology</td>
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<td>International Trade Center Director</td>
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<td>Director of Fiscal Services</td>
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<td>Reading</td>
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Gunstream, Marilyn E. (1976)
Physical Education
B.A., California State University
Los Angeles; M.A., Azusa Pacific University

Gutierrez, Jesus (2008)
Mathematics
B.S., University of California, Los Angeles; M.S., Cal State Long Beach

Gutman, Kenneth (1991)
Psychology
B.A., University of California, Los Angeles; M.A., California State University Los Angeles; Ph.D., California School of Professional Psychology

Hadsell, Cliff (2004)
Emergency Medical Technician
B.S., University of La Verne; M.P.A., California State University, Long Beach; Ph.D., University of Nebraska, Lincoln

Hahn, Shelly (1999)
Child Development
B.A., California State Polytechnic University, Pomona; M.A., California State University, Los Angeles

Halcrow, Katherine (2001)
Librarian
B.A., St. John's College; M.L.I.S., University of California, Berkeley

Hamilton, B. Jeannine (1986)
Vice President of Student Services
B.A., Baylor University; M.S.S.W., University of Louisville; Ph.D., Claremont Graduate School

Han, June (2007)
Biology
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Hao, Lan (2006)
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Harrington, Michael (2001)
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Hartman, Steven (1987)
Adapted Physical Education
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Harvey, Joseph (1990)
Reading
B.A., M.A., City College of New York

Hathaway, George (1998)
Earth Sciences
B.S., San Diego State University; Ph.D., University of California, Los Angeles

Hays, Dorothy (2000)
Counseling
B.A., California State University, Los Angeles; M.A., Pacific Oaks College

Cosmetology
A.A., East Los Angeles College

Herrera, Rafael (2007)
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A.A., Mt. San Antonio College; B.A., California State University, Fullerton; M.S., University of La Verne

Hester, Dana (1998)
Biological Sciences
B.S., University of Pittsburgh; M.S., University of Houston

Hillman, Michael (1997)
Ceramics
B.A., M.A., California State University, Long Beach

Hinrichsen, Greg (1979)
Director, Performing Arts
A.A., Chaffey College; B.A., California State University Fullerton; M.S. University of La Verne

Hoehne, William (2000)
Music
B.M.E., University of North Texas; M.M., University of Miami

Hogan, Gina (2005)
English
B.S., M.S., M.A., California State Polytechnic University, Pomona

Director, Workforce Development
A.A., Citrus College; B.A., M.A., Azusa Pacific University; Ph.D., William Lyon University

Horton, Carol (1995)
Vice President, Finance and Admin Services
B.S., Western Kentucky University; M.Ed., University of Louisville

Hurtado, Michael (1973)
Dean of Social & Behavioral Sciences
B.A., M.S., University of La Verne; Ph.D., Brigham Young University

Iverson, Robert (2008)
Director of Purchasing & Warehouse
B.A., California State University, San Bernardino

Jackson, Matt (2001)
Art
B.S., California State University, Dominguez Hills; M.A., M.F.A., California State University, Fullerton

James, Rhoda (1995)
Business
B.S.Ed., Chicago State University; M.A., California State University, Los Angeles; Ed.D., University of La Verne

Biological Sciences
B.S., M.S., California State University, Chico

Johnson, Sandra (1990)
Art
A.A., Pasadena City College
B.A., M.A., California State University, Los Angeles

Kaisler, Denise (2004)
B.Sc., University of Western Ontario; M.Sc., McMaster University; M.S., Ph.D., University of California, Los Angeles

Kary, David (1999)
Astronomy
B.S., University of British Columbia; Ph.D., State University New York at Stony Brook
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<td>Automotive Technology</td>
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<td>Music</td>
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<td>Physical Education</td>
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<td>Vice President of Instruction (1991)</td>
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<td>Vice President/Assistant to President (1984)</td>
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NEWELL, JERRY (2006)  Psychology  
NUGENT, JAMES R. (1968)  Mechanical Technology  
PETerson, DAVE (2002)  Physical Education  
PRAY, BEVERLY (2002)  College Nurse  
PRIbble, GENE (2003)  Business  
PURDUM, MARGAREt (1950)  Dean of Women, Language  
RALLS, WILLIAM (2003)  Physical Education  
RAMOS, CAROLYN (1990)  Art  
RAMPOLDI, NELLY (1991)  Foreign Language  
RAWSON, JAN (1990)  Language Arts  
REYNOLDS, R.E. (Mack) (1967)  Coordinator of Distributive Education  
RIDAY, GEORGE (2003)  Behavioral Sciences  
RINGLAND, GEORGE V. (1971)  Language Arts  
ROLLIN, ARNOLD (2007)  Dean of Students  
ROMERO, ISAAC J. (1994)  Executive Vice President of Instruction  
ROY, JOHN (1983) - Drafting  
SANDHAGEN, ROBERT (2002)  Cosmetology  
SARCHETT, EVELYN (1988)  School Nurse  
SCHAUDT, JOLYNN (1988)  Music  
SCHNEIDER, DAVID (2005)  Interim Director of Computer Center  
SCHOTT, HENRY A. (1953)  Industrial Technology, Coach  
SCHREIBER, WILLIAM (2003)  Economics  
SHARPSTEEN, MILDRED (1989)  Library  
SHIREY, KEITH (1998)  Philosophy and Political Science  
SMALL, MICHELLE C. (2003)  Director of Publications and Student Recruitment  
SMITH, BARBARA (1993)  Counseling  
SMITH, GRANT L. (1972)  Vice President, Asst. Supt. Business  
SMITH, MARJORIE (1983)  Physical Education, Health, Athletics  
SMITH, TERRY R. (2000)  Transportation Technology  
SMITH, WESLEY (1958) - Social Sciences  
SMYTH, EDMUND O. (1976)  Vice President - Student Personnel  
SNYDER, EDWARD C. (1956)  Engineering, Physics  
SPAUN, JACK (2003)  Behavioral Science  
STEVENS, MARSCHALL (1996)  Biological Sciences  
STURGES, DAVID (1958)  Biology/Life Science  
SUNDSTRAND, LYNDON (1994)  Associate Dean of Instruction  
SWOPE, LAURA P. (1956)  Art  
TAYLOR, EUGENE (1992)  Political Science  
TAYLOR, ROGER (1994)  Foreign Languages  
TEFFT, THOMAS (2000)  Dept Chair Art/Social Sciences  
TELLENBACH, ERIC (1999)  Associate Dean Mathematics & Computer Science  
THOMAS, JAMES C. (1978)  Electronics  
THOMAS, LEO (1985)  Vice President/Instruction, Behavioral Science  
THOMPSON, JOHN (2009)  Dean of Library  
THOMPSON, MYRTLE (1992)  Health Occupations  
THROSSELL, JOY (1988)  Cosmetology  
TRENT, DEE (1994)  Geology and Physical Geography  
TRONAAS, EDWARD (1993)  Executive Vice President of Instruction  
ULRICH, WILLIAM (1990)  Language Arts  
VANIMAN, GLENN G. (1967)  Superintendent/President  
VAUGEOS, FRED (2001)  Director of Facilities and Support Services  
VIERA, MICHAEL J. (2008)  Superintendent/President  
VINCENT, THEODORE J. (1975)  Astronomy  
WALDORF, EUGENE H. (1983)  Physical Science  
WATERS, H. P. (1985)  Handicapped Enabler/Dean of Student Activities  
WATKINS, D. JOAN (1991)  Vocational Nursing  
WILLIAMS, JAMES D. (2005)  Interim Vice President of Instruction  
WILSON, HAMILTON (1989)  Cosmetology  
WISDOM, ALINE CROWLEY (1979)  Librarian  
YOUNG, OLGA (2000)  Counseling  
ZAREMBINSKI, MILADA I. (1974)  Foreign Language  
ZAVIDOWSKY, BERNARD (1988)  Language Arts  
ZELLERS, LOUIS E. (2003)  Superintendent/President
Definitions of Terms

Admissions and Records—The office and staff that admits students and certifies their legal record of college work; also provides legal statistical data for the college.

Application for Admission—A form provided by the college on which the student enters identifying data and requests admittance to a specific semester or session. An application must be filed and processed before registration in classes.

ASCC Sticker—Membership sticker of the Associated Students of Citrus College purchased each semester.

Associate’s Degree (A.A. or A.S.)—A degree (associate in arts or associate in science) granted by a community college which recognizes satisfactory completion of an organized program of study consisting of at least 60 to 64 semester units.

Bachelor’s Degree (B.A., A.B., or B.S.)—A degree granted by a four-year college or university which recognizes a student’s satisfactory completion of an organized program of study consisting of at least 120 to 130 semester units.

Certificate of Achievement—A certification granted by a community college which recognizes satisfactory completion of an organized program of study in occupational majors.

Class Section—A group of registered students meeting to study a particular course at a definite time. At Citrus College each section has a course reference number which indicates the schedule of class meeting time.

Community College—A two-year college offering a wide range of programs of study, many determined by local community need.

Counseling—Guidance provided by professional counselors in collegiate, vocational, social and personal matters.

Course—A particular portion of a subject selected for study. A course is identified by a subject title and course number; for example: Accounting 101.

Course of Study—A group of courses planned to lead to competence in a particular field of study and the associate degree.

Course Title—A phrase descriptive of the course content; for example, the course title of Accounting 101 is "Principles of Accounting.”

Credit by Examination—Course and/or unit credit granted for demonstrated proficiency in a given area.

Credit/No-Credit—Completion of a course with credit granted but no grade.

Deficiency—Grade Point Deficiency: whenever a student’s grade point average is less than 2.0; Subject Deficiency: whenever a student lacks a course or courses required for admission, graduation or transfer.

CRN Number—A course reference number assigned to each course section to differentiate the section by class meeting, day, and time.

Department—A division of the college that offers instruction in a particular branch of study, a student services, or administrative support.

Electives—Courses which a student may choose that are not required for a particular major program or general education requirements.

Enrollment—That part of the registration process during which students select classes by section number to reserve a seat in the class and be placed on the class roster.

General Education Requirements—(also called Breadth Requirements). A specific group of courses selected from several divisions which are required for graduation and are designed to broaden a student’s education.

Grade Points—The numerical value of Citrus College letter grades are: A=4, B=3, C=2, D=1, F=0.

Grade Point Deficiency—Possession of fewer grade points than twice the units attempted.

Grade Point Average—A measure of academic achievement used in decisions on probation, graduation and transfer. At Citrus College the G.P.A. is determined by dividing the total degree applicable course grade points by the number of attempted degree applicable course units in which letter grades of A, B, C, D, or F are recorded.

Lower Division—Courses at the freshman and sophomore level of college.
Major—A subject of college study selected by a student as a field of specialization.

Minor—The subject field of study which a student chooses for secondary emphasis.

Nonresident—A student who does not have residence in the State of California for more than one year immediately preceding the residence determination date.

Pass/No Pass—Students can choose to be evaluated on a grading basis in courses approved for this option. A student must declare the option by no later than 30% of the term, or the fourth Friday of a full semester course by filling out a Pass/No Pass petition in the Admissions and Records office. Instructors have the authority to assign an F (Failing) for cheating or plagiarism and may refer the student for additional disciplinary action.

Placement Test—Tests given prior to admission which are used to assist students in selecting the most appropriate classes.

Prerequisite—A requirement that must be satisfied before enrolling in a particular course, usually a previous course, a test score or consent of instructor.

Probation—A trial period in which a student must improve scholastic achievement.

Registration—The process of enrolling in specific class sections.

Resident—A student who has resided in the State of California for more than one year immediately preceding the residence determination date.

Resident Determination Date—The day immediately preceding the opening day of instruction for any semester or session.

Schedule of Classes—A booklet or online web pages used during registration giving the subject title, course number, course title, units, time, instructor and location of all classes offered in a semester.

Semester—One-half of the academic year, usually 16 weeks.

Transcript—An official list of all courses taken by a student at a college or university showing the final grade received for each course.

Transfer—Changing from one collegiate institution to another after having met the requirements for admission to the second institution.

Transfer Courses—Courses for students planning to transfer to a four-year college/university. Courses transferable to the California State University system are indicated by “CSU” and those transferable to the University of California are indicated by “UC” next to the course number in this catalog.

Transferable Units—College units earned through satisfactory completion of courses which have been articulated with four-year institutions.

Units—The amount of college credit earned by satisfactory completion of a specific course taken for one semester. Each unit represents one hour per week of lecture or recitation, or three hours in laboratory or other exercises not requiring outside preparation. In general, two clock hours of preparation outside of class are necessary for each unit of class lecture or recitation in academic subjects.

Units Attempted—Total number of units in the course for which a student has enrolled and has received a grade of A, B, C, D, F, W, C, or NC.
Maps not to scale. All visitors must display a parking permit available for $5 from the information booth at the main campus entrance and the vending machine, located in the S8 Lot. Handicapped parking is available in every lot. To use handicapped parking, you must have a DMV placard.
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