



2008–2009 CITRUS COLLEGE CATALOG



POLICY CHANGES

Citrus College has made every reasonable effort to ensure the information in this catalog accurately reflects current legislation, policies and fees. However, these are subject to modification at any time, without notice, in order to accommodate changes in the resources or educational plans of the Citrus Community College District, or for reasons deemed appropriate by the college president or designee.

ACCREDITATION

Citrus College is accredited by Western Association of Schools and Colleges (WASC). Its many professional memberships include the American Association of Community Colleges (AACC) and the Community College League of California (CCLC).

ON THE COVER:

Top Image: The newly dedicated Louis E. Zellers Center for Innovation building

Bottom Images: Featured faculty members

Top row, from left to right

Gloria Ramos, *Science and Engineering*

Dyane Duffy, *Fine Arts*

Dale Salwak, *Language Arts*

Shauna Bigby, *College Nurse*

Andrew Kim, *Social and Behavioral Sciences*

Barbara Rugeley, *Library*

Timothy Durfield, *Business*

Bottom row, from left to right

Albert Graciano, *Cosmetology*

Gino Munoz, *Performing Arts*

Claudia Castillo, *Counseling*

David Greene, *Health Sciences*

Jackie Boxley, *Physical Education*

Shuling Cummings, *Mathematics*

David Brown, *Transportation Technology*

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

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

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citrus college catalog



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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President's Message: Amidst Changes, Quality Remains Constant

As the new superintendent/president, I am excited and honored to welcome you to Citrus College. It was with great enthusiasm that I joined the Citrus College family this past summer. Although the campus leadership may have changed, I would like to reassure you that our core mission and values remain the same. Citrus College will continue to deliver high-quality instruction and student services that are designed to help you attain your education, sharpen your skills, and launch your career. In this catalog, you will find important information that will assist you as you prepare to embark on your academic journey.

At Citrus College, you will find faculty and staff who are dedicated to ensuring that you meet your educational goals. We offer many opportunities through which you can learn and grow, both personally and academically. For those in the workplace, Citrus has programs that will allow you to develop your skills and enhance your professional value. We also have services to help those students seeking to transfer to a four-year college or university.

The goal of many incoming students is to receive career preparation. At Citrus College, we offer certificates in over 40 different in-demand career/technical programs, including Forestry, Electronics, and Cosmetology. In addition, we offer 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.

Understanding that you live in a fast-paced and demanding world, we provide alternative and innovative ways to help you access classes. Our expanding Distance Education Program delivers instruction to students through technology. These credit courses are a convenient alternative to on-campus students who have issues or responsibilities that might otherwise interfere with attending classes.

Citrus College's exceptional educational programs and outstanding student services are complemented by our state-of-the-art facilities. In May 2008, the new Center for Innovation was dedicated. This three-story building features more than 80 offices for faculty and deans. At the same time, a host of renovations and campus improvements are currently underway on campus. Construction of the new Student Services, Automotive Technology, Stadium Field House, and Concession buildings is progressing steadily. Renovations to the campus gymnasium are also taking place.



New and re-entry students will soon have the opportunity to view the improvements being made on campus, as well as become acquainted with all that Citrus has to offer. Thursday, August 28 is "Welcome Day," a first-time event designed to help students transition into campus life smoothly.

For more than 90 years, Citrus has built a solid reputation as an educational community fully dedicated to student success. We are known for providing the highest quality education and services to our students and neighboring communities. I am thrilled and grateful to now be a part of this rich legacy. On behalf of the board of trustees, faculty, and staff, I wish you every success as you begin your bright future at Citrus College.

Sincerely,

A handwritten signature in cursive script that reads "Geraldine M. Perri".

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

Citrus Community College District Board of Trustees



Dr. Edward C. Ortell



Mrs. Susan M. Keith

Dr. Edward C. Ortell
President
Duarte/Arcadia/Azusa/Monrovia Representative

Mrs. Susan M. Keith
Vice President
Claremont/Azusa/Pomona Representative



Dr. Gary L. Woods



Dr. Patricia Rasmussen

Dr. Gary L. Woods
Clerk/Secretary
Azusa/Covina/Glendora/Irwindale Representative

Dr. Patricia Rasmussen
Member
Glendora/Azusa/San Dimas Representative



Mrs. Joanne Montgomery



Mr. Andrew Cress

Mrs. Joanne Montgomery
Member
Monrovia/Bradbury/Duarte Representative

Mr. Andrew Cress
Student Representative

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/Bradbury—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.

Important Information Regarding the 2008-2009 Citrus College Catalog

In order to provide the quality that our students and our community deserves, Citrus College is fully engaged and committed to adapting and implementing the changes and recommendations mandated by the California Education Code, Title 5.

As a result, some of Citrus College's policies and procedures have been changed since this catalog was printed. The portions of the catalog that have been impacted by these changes are marked by an asterisk (*) and feature disclaimer statements on the same page.

A revised catalog, which is posted online, reflects the most current information available and is the catalog of record. In order to access the revised policy, please view the online catalog at www.citruscollege.edu, click on the "Class Schedule" link, and then click "College Catalog."

In order to ensure your understanding of these changes, please make an appointment with a counselor.



2008-2009 Academic Calendar

Please refer to the Schedule of Classes for deadlines.

Fall Semester 2008

September 2-December 20

- August 18 Cosmetology Program begins
- August 28 Welcome Day for New Students
- August 29 Instructional Improvement
 Activities
- August 30 &
September 1 Labor Day Holiday
- September 2 Instruction Begins**
- November 8 & 10 Veteran's Day Holiday
- November 27-29 Thanksgiving Holiday
- December 15-20 Final Exams
- December 21-
January 4 Winter Break

2008

August						
S	M	T	W	Th	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24/31	25	26	27	28	29	30

November						
S	M	T	W	Th	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23/30	24	25	26	27	28	29

September						
S	M	T	W	Th	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

December						
S	M	T	W	Th	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

October						
S	M	T	W	Th	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Winter Intersession 2009

January 5-February 12

- January 7 Instruction Begins**
- January 17 & 19 Dr. Martin Luther King Jr.
 Birthday Holiday
- February 12 Instruction Ends

2009

January						
S	M	T	W	Th	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

April							
S	M	T	W	Th	F	S	
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12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30			

February						
S	M	T	W	Th	F	S
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8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

May						
S	M	T	W	Th	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24/31	25	26	27	28	29	30

Spring Semester 2009

February 18-June 12

- January 5 Cosmetology Program Begins
- February 13-16 Presidents' Day Holiday
- February 17 Instructional Improvement
 Activities
- February 18 Instruction Begins**
- April 13-18 Spring Break
- May 23 & 25 Memorial Day Holiday
- June 8 - 12 Final Exams
- June 13 Commencement

March						
S	M	T	W	Th	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

June						
S	M	T	W	Th	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				



Who Are We? History, Mission and Community

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 Azusa, Bradbury, 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 will change the look of the campus.

The college enrolled 27 students in 1915 and currently serves approximately 12,000 students.

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.

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.

Directors are prominent and influential members of the communities served by the college. Each may serve up to two 3-year terms in office. Officers include a president, president elect/vice president, secretary and treasurer. Directors are recruited by the Board Development Committee and invited to join the board.

The superintendent/president of the college is named in the Foundation's by-laws as the executive director of the Foundation; however, the executive director of development and external relations manages the Foundation's day-to-day operations.

In 2007, the Foundation awarded 120 scholarships and grants, valued at over \$90,000. 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. The special projects include, but are not limited to, memorial projects, membership benefits, and the Distinguished Alumni Award presented every year at Commencement.



Catherine Perez

2008 Latina Leadership Network
Scholarship Recipient

"Citrus College has meant a lot to me. The two years I have spent here have been the two years of my life in which I have grown the most. I sincerely believe that if I had not attended this college, I would not be who I am today."

Citrus College Directory

1000 West Foothill Blvd., Glendora, California 91741
 General Information: 626-963-0323 • www.citruscollege.edu
 (All telephone numbers are in the 626 area code)

President's Office

Superintendent/President

Executive Assistant
 Administrative Assistant

Geraldine M. Perri, Ph.D.

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, Interim 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

Interim Director

Administrative Assistant
 Human Resources/Staff Diversity

Robert Sammis, Interim Director

Sandra Coon, 914-8552
 Brenda Fink, Staff Diversity Officer, 914-8830

Institutional Research

Director

Administrative Secretary
 Research Analyst
 Research Analyst

Dr. Lan Hao

Linda Swan, 914-8002
 Kay Nguyen, 852-8038
 Jose Aguilar, 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

Office of Instruction and Instructional Divisions

Vice President

Administrative Assistants

Administrative Secretary

Irene Malmgren

Jerry Capwell, 914- 8881

Mary Garcia, 914-8882

Kathleen Bueno, 914-8882

Business, Computer Science and Information Systems, and Distance Education

Accounting

Business

Computer Science and Information Systems

Office Technology and Computer Applications

Real Estate

Distance Education

Dean

Administrative Secretary

Distance Education

Dr. Stephen Lindsey

Jaclyn Vazquez, 914-8807

Bruce Langford, Faculty Coordinator, 914-8585

Lari Kirby, Supervisor, 914-8569

Continuing Education, Cosmetology and Transportation Technology

Automotive, Motorcycle, Diesel Technology

Classroom Scheduling

Community Education

Contract Education

Cosmetology

Noncredit Instruction

Dean

Continuing Education Supervisor

Administrative Secretary

Vocational Education

Cosmetology

Center for International Trade (CITD)

James Lancaster

Debbie Vanschoelandt, 852-8022

Lois Bottari

Dr. Kim Holland, Director, 914-8700

Ervalyn "Gus" Brooks, Director, 914-8713

Gene Bohatch, Director, 335-4016

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

Haugh Performing Arts Center

Dean

Administrative Secretary

Haugh Performing Arts Center

Robert Slack

Autumn Leal, 914- 8580

Greg Hinrichsen, Director, 852-8047

Ann Heming, Supervisor, 914-8580

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, Spanish

Learning Center: Assessment/Testing, Tutoring Center, Language Lab, Writing Center

Reading
Speech Communications

Dean
Administrative Secretary
Learning Center

Samuel Lee
Cathy Day, 914-8856
Marcy Morris, Supervisor, 914-8571

Library
Library: Learning Resource Center, Audiovisual
Library Technology

Staff Development

Dean
Administrative Secretary
Audiovisual Technician
Public Services Librarian/
Bibliographic Instruction
Technical Services/Systems Librarian

Dr. John Thompson
Judi Kemp, 914-8874
Tina Gutierrez, 914-8576
Barbara Rugeley, 914-8642

Katherine Halcrow, 857-4061

Mathematics
College Success Program (Basic Skills)
Honors Program

Learning Communities
Mathematics

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

James McClain
Cynthia Audelo, 914-8792
Sylvia Smythe, Director, 857-4172
Brian Waddington, Coordinator, 857-4039

Physical Education and Athletics
Intercollegiate Athletics
Physical Education

Dean
Administrative Secretary

Jody Wise
Isabel Bellman, 914-8650

Science, Engineering and Health Sciences
Architecture
Astronomy
Biology
Chemistry
Digital Design
Drafting
Physics

Earth Science
Electronics
Engineering and Information Technology
Forestry
Natural History

Dean
Administrative Secretary
Technical Preparation

Eric Rabitoy
Chris Pagano, 914-8789
Marti DeYoung, Supervisor, 914-8702

Health Sciences

Director

Administrative Secretary
Secretary

Dental Assisting
Health Occupations (EMT)
Nursing (LVN)
Nursing (ADN)

Social & Behavioral Sciences

Administration of Justice
Anthropology
Child Development/Orfalea Children's Center
Economics
Geography (Cultural)
History
Humanities

Dean

Administrative Secretary
Child Development Center
Study Abroad

Dr. Maureen Estrada

Pam Aggers, 914-8720
Cheryl Hall, 914-8791

Claudia Pohl, 914-8728
Cliff Hadsell, 914-8755
Julie Wong, 914-8721
Dr. Maureen Estrada, 914-8791

Philosophy
Political Science
Psychology
Sociology
Student Government
Study Abroad Program

Dr. Michael Hurtado

Gayle Allen, 914-8860
Dr. Mickie Allen, Director, 914-8501
Lynn Jamison, Coordinator, 914-8560

Student Services

Vice President

Administrative Assistant

Admissions & Records

Admissions
Financial Aid
Registrar

Dean

Administrative Secretary
Registrar
Financial Aid
Service Learning
Student Employment Services

Counseling

Career/Transfer Center
Counseling/Advisement Center
Noncredit Matriculation

Dean

Administrative Secretary
Articulation Officer
Career/Transfer Center
Center for Teacher Excellence
EOP&S/CARE, CalWORKs
DSP&S
Noncredit Counseling & Matriculation

Student Affairs

Athletic Eligibility
Bookstore
Campus Security
Food Services
High School Outreach
International Student Center

Dean

Administrative Secretary
Bookstore
Campus Security
Food Services
School Relations/Outreach

International Student Center
Student Activities
Student Health Center

Dr. Jeanne Hamilton

Pam McGuern, 914-8532

Service Learning
Student Employment Center
Transcripts

Lois Papner

Peggy Olson, 914-8519
Judith Heinrichs-Harmon, 914-8597
Lilia Medina, Director, 914-8591
857-4163
Tedd Goldstein, Supervisor, 914-8596

EOP&S/CARE, CalWORKs
DSP&S

Lucinda Over

Tonya Ryan, 914-8541
Michelle Plug, 914-8637
Justina Rivadeneyra, Coordinator, 914-8639
Rafael Herrera, Coordinator, 857-4078
Robert Melendez, Director, 914-8556
Jennifer McLeod, Coordinator, 914-8677
Kristie Shimokawa, Coordinator, 852-8021

Student Activities
Student Business Office
Student Conduct
Student Government
Student Health Center

Martha McDonald

Teri Shamhart, 914-8601
Eric Magallon, Supervisor, 914-8624
Anthony Giannone, Supervisor, 914-8611
Philomena O'Shea, Supervisor, 914-8615
Ivon McCraven, Coordinator, 857-4162
Linda Merlo, College Promotions Specialist
857-4068
Coe Lamoureux, Supervisor, 914-8548
Adrienne Thompson, Supervisor, 914-8603
Shauna Bigby, College Nurse, 914-8635

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. (Special provisions for high school students are addressed in this section.)

How to Apply

The process of applying to Citrus College begins when prospective students submit an application online through our website, www.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.

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 of residence

- Physical presence in California for at least one year and one day prior to the first day of school
- Financial independence

The burden of residency proof rests with the applicant. A complete list of residency requirements is available in the Admissions & Records Office and at 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 to Citrus College, upon approval of their applications. The 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 fulfill the following requirements:

1. English Proficiency with a minimum TOEFL score of 450
Or
Successful completion of the Citrus College Intensive ESL Program
2. Financial guarantee to cover the payment of tuition, fees, and living expenses. Applications are available in the International Student Center and must be submitted by **July 10** for Fall Semester enrollment or by **December 10** for Spring Semester enrollment. There is no deadline for international students who are already in the United States, who are new students, or are transferring from another college.

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 classes for high school students are offered at Claremont, Duarte and Monrovia high schools. 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.

Students who request their Citrus College transcript receive their first two transcripts free. Thereafter, the student will be charged \$3.00 per transcript.

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 from the Citrus College web site at www.citruscollege.edu via WingSpan.

This certificate may be presented to health insurance agencies, housing authorities, consumer-product companies, banks, etc., 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. A Noncredit, Community Education schedule is published separately. All class schedules are available online at www.citruscollege.edu/schedule.

Effective this academic year, class schedules will be published for fall, winter intersession/spring, and summer sessions.

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 schedule
- Pay fees by credit or debit card

Future WingSpan features include access to grades and unofficial transcripts. To learn more about WingSpan, go to www.wingspan.citruscollege.edu and download the Student Guidelines handbook.

2008-2009 Fees and Expenses

Fees and tuition are subject to change.

Enrollment Fee	\$20.00 per unit
International Student Tuition*	\$210.00 per unit
Nonresident Tuition*	\$181.00 per unit
Campus Service Fee	
Health Service Fee	\$17.00
BOGW Students	\$12.00
Parking Fee	
Student Service Fee	\$30.00
7 or more units	\$16.00
Less than 7 units	\$9.00

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

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 the 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 sticker 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 or a refund request form from the Student Affairs Office, located in the Campus Center. Proof of registration is required. Students who waive or receive a refund 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 and/or ASCC sticker before the refund deadline in order to receive a refund for these items. Failure to do so will change the amount of the refund. Official withdrawals and parking permit refunds for students changing from on campus to Distance Education classes also apply.

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 for credit 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; and the policies and limitations on enrollment
- Assessment: for all non-exempt students regarding placement into math, reading and English with the use of multiple measures
- Counseling and Advisement: development of a Student Educational Plan (SEP) based on the student's educational goals
- Student Follow-up: involving early intervention such as the "Early Alert Program," follow-up with students on probation, and 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

Exemption from Matriculation

Citrus College students may be exempt from matriculation activities, based on the following criteria:

- A completed associate degree or higher
- Enrollment in fewer than five units and enrollment in courses to advance in current job, to maintain a certificate of achievement or license, or for personal development
- Assessment/orientation components completed 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.



What Classes Should I Take? Assessment and Placement

What is Assessment?

All new students who are not exempt from matriculation activities are required to participate in an assessment/orientation/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.

This assessment program is an effort to provide students with the finest academic advisement and counseling possible. The assessment orientation is scheduled periodically throughout each semester and during the summer. For more information, please contact the Counseling and Advisement Center at (626) 914-8530.

Who Should Take the Placement Tests?

All new students should take the placement test except those exempted from the criteria listed on page 19.

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.

Placement Appeals Process

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.



How Do I Adjust to Campus Life? Ensuring a Smooth Academic Transition

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, guidelines for student success and more.

The college's orientation program may be completed one of three ways:

- 1) Online Orientation:
www.citruscollege.edu/orientation
- 2) Enrollment in one of two counseling classes:
 - a) College Planning 156
 - Or*
 - b) Strategies for College Success 160
- 3) Completion of a new student workshop; sign-ups are taken at the Counseling and Advisement Center

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 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 aid. The counselors assist in long-range planning and in checking specific requirements so that students meet graduation requirements, course prerequisites, and 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 Strategy/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 pre- 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 goal of your 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, Judith Heinrichs, 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.

Non-Credit Counseling

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 college assessment test (Accuplacer)
- Student Educational Plan (SEP)
- Prepare 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

What are the Rules? Academic Policies and Requirements

***Note:** Due to changes in the California Education Code (Title 5), some of Citrus College's policies and procedures have changed. The portions of the catalog that have been impacted by these changes are marked by an asterisk (*). In order to access the revised policy, please view the online catalog at www.citruscollege.edu/catalog or make an appointment with a counselor.

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 from a class if the student has an excessive absence record. 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.

Readmission

To be readmitted to a course after being dropped by the instructor, a student must submit a Program Change Form ("Add") to the Admissions and Records Office, which must be signed by the instructor. If a student is readmitted, they must attend class regularly, or they may be permanently dropped from the class.

The student may appeal, in writing, to the vice president of instruction who will chair a commit-

tee comprised of the vice president of student services, the department head concerned, and the instructor involved.

The committee will meet within three school days of the appeal submission and make a final decision.

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 discontinue class attendance without a formal withdrawal risk receiving failing grades.
- Students who withdraw 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

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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

All Citrus College credit courses are measured in semester units. A unit is one class hour of lecture per week for one semester, plus two hours of outside preparation. Laboratory work is valued at one unit for every three hours. Physical education activity courses are not included in computing the semester load.

Fifteen units per semester is a typical course load for a student who is planning to earn an associate degree or transfer to a four-year institution within two years. In order to take a 15-unit load, the student must be in satisfactory scholastic standing. Students are not permitted to enroll in more than 19 units per semester without the permission of a counselor. Students on academic probation are advised to enroll in no more than 12 units per semester.

Units Attempted

Units attempted are the 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., Cr, or NCr.

Student Classifications

Full-Time: Enrolled in 12 or more units.

Part-Time: Enrolled in fewer than 12 units.

Three-Fourths Time: Enrolled in 9, but fewer than 12, units.

Half Time: Enrolled in 6, but fewer than 9, units.

Special: A community college or college graduate or a high school student under 18 years of age

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.

Symbol	Definition	Grade Point
A	Excellent	4
B	Good	3
C	Satisfactory	2
D	Passing, less than satisfactory	1
F	Failing	0
CR Credit	At least satisfactory, units awarded,	Units not counted in GPA
NC No Credit	Less than satisfactory or failing	Units not counted in GPA

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.

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***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 progress probation and dismissal procedures.

Withdrawal from a class or classes due to extenuating circumstances--verified cases of accident, illness or other circumstance 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 ProgressPresident'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 deter-

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mined 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:

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

- b. 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

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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 College. 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.

***Credit/No Credit Courses**

Citrus College students may be evaluated on a Credit/No Credit grading basis in courses approved by the Curriculum Committee. Credit/No Credit course options are designated in the Description of Courses section of this catalog by the symbol, C/NC. 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 Credit/No Credit Petition in the Admissions and Records Office.

*Standards for Credit/No Credit Courses

- A Credit "CR" grade is defined as "C" or better
 - o Units are awarded
 - o Grade points are not assigned, and the grade is not used to compute grade point average
- A No Credit "NC" grade is defined as less than satisfactory ("D" or "F")
 - o Units are not earned
 - o Grades are not used to compute grade point average

*Credit/No Credit Units Allowed

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

*** Policy change-visit www.citruscollege.edu/catalog for update or contact a counselor.**

***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 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.

A student may be granted a maximum of 30 units through any combination of Credit by Examination (AP, CLEP, IB or local examinations) and evaluation of military service or other non-classroom experience. Credit by Examination opportunities and their requirements consist of the following:

***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 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 particular 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, CR, and NC).

6. A student may not petition for Credit by Examination for basic courses in the student's native language.
7. The maximum number of credits allowed for coursework taken by examination is twelve (12) units.
8. Grades received because of courses taken for Credit by Examination shall be recorded as Credit/No Credit grades on the permanent transcript record and shall be designated as credit earned by examination.

Students must file a Credit by Examination petition for evaluation. To qualify for evaluation students must complete twelve (12) units, be currently enrolled at Citrus College and have a cumulative GPA of a 2.0 or higher.

***Credit for Advanced Placement**

Students who have completed Advanced Placement (AP) examinations of the College Entrance Examination Board with scores of 3, 4, or 5 may receive credit at Citrus College as indicated in the table on pages 30-31. A grade of Credit (CR) will be assigned on the transcript. Credit awarded through advanced placement may be used to satisfy graduation requirements toward the associate degree, IGETC and CSU General Education-Breadth requirements. Transfer universities reevaluate AP credit. 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.

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.

*** Policy change-visit www.citruscollege.edu/catalog for update or contact a counselor.**

***Credit for the College Level Examination (CLEP) Program**

A student must be enrolled at Citrus College to receive course credit for CLEP examinations. Credit will not be granted for courses in which equivalent work has been completed.

The college will grant units for scores of 50 or above in the general examinations 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.
5. **At the time of publication of this catalog, CLEP is under review at Citrus.**

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 there-

fore important that the student request official transcripts from all colleges previously attended. These transcripts should be sent to the Admissions & Records Office

A student who has taken coursework at institutions of higher learning outside of the United States and who wishes to have that coursework considered toward his/her educational goal at Citrus College must have the academic credentials evaluated by a bonafide independent evaluating agency. A list of recommended agencies is available in the Admissions and 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. Any questions may be directed to the Articulation Office in ED 129.

***Credit for International Baccalaureate**

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

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.
4. **At the time of catalog publication, policy for acceptance of the International Baccalaureate diploma or certificates is under review.**
5. The International Baccalaureate is re-evaluated by the UC, CSU, independent universities, and other community colleges.

Any questions may be directed to the Articulation Officer in ED 129.

*** Policy change-visit www.citruscollege.edu/catalog for update or contact a counselor.**

Citrus College AP Course Equivalency List

AP Examination	AP Score	Citrus Subject Credit	Citrus Unit Credit	Citrus GE	CSU GE	IGETC
Art History	3, 4, 5	ART 101	3	Area CI	Area C1	Area 3A or 3B
Biology	3, 4, 5	BIO 105	3	Area BI	Area B2 & B3	Area 5A w/lab
Calculus AB	3, 4, 5	MATH 190	4	Area AIII	Area B4	Area 2A
Calculus BC	3, 4, 5	MATH 191	4	Area AIII	Area B4	Area 2A
Chemistry	3, 4, 5	CHEM 110	5	Area BII	Area B1 & B3	Area 5A w/lab
Chinese Language and Culture	3, 4, 5	NONE	NONE	NONE	Area C2	Area 3B
Computer Science A	3, 4, 5	CSIS 111	4	NONE	N/A	N/A
Computer Science B	3, 4, 5	CSIS 111	4	NONE	N/A	N/A
English Language and Composition	3, 4, 5	ENGL 101	3	Area AI	Area A2	Area 1A
English Literature and Composition	3, 4, 5	ENGL 102	3	Area CII	Area A2 & C2	Area 1A or 3B
Environmental Science	3, 4, 5	BIO 145	3	Area BI	Area B1 & B3	Area 5A w/lab
European History	3, 4, 5	ELECTIVE HISTORY	3	Area DI	Area D6	Area 3B or 4F
French Language	3, 4, 5	FRENCH 101 & 102	8	Area CII	Area C2	Area 3B and 6A
French Literature	3, 4, 5	NONE	NONE	NONE	Area C2	Area 3B and 6A
German Language	3, 4, 5	GERMAN 101 & 102	8	Area CII	Area C2	Area 3B and 6A
Government and Politics: Comparative	3, 4, 5	POLI 103	3	Area DI	Area D8	
Human Geography	3, 4, 5	GEOG 102	3	Area DI	Area D5	Area 4E
Italian Language and Culture	3, 4, 5	NONE	NONE	NONE	Area C2	Area 3B and 6A

Citrus College AP Course Equivalency List

AP Examination	AP Score	Citrus Subject Credit	Citrus Unit Credit	Citrus GE	CSU GE	IGETC
Japanese Language and Culture	3, 4, 5	NONE	NONE	NONE	Area C2	Area 3B and 6A
Latin Literature	3, 4, 5	NONE	NONE	NONE	Area C2	Area 3B and 6A
Latin: Virgil	3, 4, 5	NONE	NONE	NONE	Area C2	Area 3B and 6A
Macroeconomics	3, 4, 5	ECON 101	3	Area DI	Area D2	Area 4B
Microeconomics	3, 4, 5	ECON 102	3	Area DI	Area D2	Area 4B
Music Theory	3, 4, 5	MUS 101	3	NONE	N/A	N/A
Physics B	3, 4, 5	PHYS 110	4	Area	Area B1 & B3	Area 5A w/lab
Physics C: Electricity and Magnetism	3, 4, 5	PHYS 110	4	Area BII	Area B1 & B3	Area 5A w/lab
Physics C: Mechanics	3, 4, 5	PHYS 110	4	Area BII	Area B1 & B3	Area 5A w/lab
Psychology	3, 4, 5	PSYCH 101	3	Area D	Area D9	Area 4I
Spanish Language	3, 4, 5	SPAN 101 & 102	10	Area CII	Area C2	Area 3B and 6A
Spanish Literature	3, 4, 5	NONE	NONE	NONE	Area C2	Area 3B and 6A
Statistics	3, 4, 5	MATH 165	4	Area AIII	Area B4	Area 2A
Studio Art: 2D Design	3, 4, 5	NONE	NONE	NONE	N/A	N/A
Studio Art: 3D Design	3, 4, 5	NONE	NONE	NONE	N/A	N/A
Studio Art: Drawing	3, 4, 5	NONE	NONE	NONE	N/A	N/A
United States History	3, 4, 5	HIST 107 or 108	3	Area D	Area D6	Area 3B or 4F
World History	3, 4, 5	HIST 105	3	Area D	Area D6	Area 3B or 4F

How Does Citrus Recognize High Achievers? Honors Programs and Recognition

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. President's List students have a 3.8 GPA in at least 6 units completed in the semester they are being recognized. Dean's List students have a 3.5 GPA in at least 6 units completed in the semester they are being recognized. Non-degree applicable courses are not included.

Honors at Graduation

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

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.

Students participating in the Citrus College Honors Program will benefit in a number of ways. Honors course work enhances the 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.

For additional information, visit 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.

Who Records My Grades and Credits? Policies Regarding Academic Records

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

- Units taken at Citrus College only may be disregarded; units from other colleges do not apply
- A maximum of 24 units may be disregarded
- A minimum of two years must have elapsed since the end of the term when the poor performance occurred
- 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 a minimum 2.5 GPA;
Or 36 units with a minimum 2.0 GPA
- A student may be granted academic renewal only once

- Academic renewal by Citrus College does not guarantee that other institutions outside the district will approve such actions. Each institution determines its own policy
- Only D or F grades can be disregarded

When academic renewal is granted, the student's permanent academic record shall be annotated so that it is readily evident to all users of the record.

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

For purposes of computing honors at graduation, a student's cumulative grade point average shall include all work undertaken at any accredited institution including those academically renewed.

Transcripts

See Admission, Registration and Matriculation section

Challenge of Educational Records

See Student Grievances

Where Do I Find Help and How Do I Become Involved? Student Services and Student Life

Admissions and Records

The Admissions and Records Office, located on the first floor of the Administration Building, is the gateway to Citrus College. In this department, 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, nine of which must be in academic courses, at Citrus College prior to competing for Citrus College. 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.

CalWORKs

CalWORKs is California's welfare-to-work program for families with children. The CalWORKs Program collaborates with the Department of Public Social Services to assist students with education, training and job skills. The program also assists students receiving Temporary Aid for Needy Families (TANF).

Through CalWORKs, Citrus College provides short-term training programs to help students enhance their skills and/or develop new skills in order to find employment and become self-sufficient.

CalWORKs students have the opportunity to establish education and career paths allowing them to transfer to a university and continue their education, with the goal of earning a bachelor's degree.

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.

For additional information, refer to the Campus Policies and Notices section.

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. These resources help students make well informed decisions regarding employment, selection of a major, and/or career choices. Career assessment may be recommended by counselors to measure interests, skills, personality and work values. Students may receive help developing resumes and improving job interviewing skills through individual appointments or during job search presentations.

The center also provides helpful resources to students planning to transfer to a four-year college or university. To educate and assist Citrus College transfer students, the Career/Transfer Center provides a variety of transfer support services, resources and special events. We aim to foster a seamless transfer process using services and resources that include:

- College catalogs and college search resource books
- Individual transfer advising
- University representative appointments
- University application assistance and workshops
- Campus tours
- Transfer awareness workshops
- College fairs
- Guaranteed admission contracts to 7 of the 10 UC campuses
- Course equivalent articulation agreements with numerous 4-year institutions

Cashier

See Fiscal Services/Cashier

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:

1. Citizenship: Financial aid applicants must be a U.S. Citizen, U.S. National, or an eligible non-citizen.
 - a. Eligible non-citizens includes: 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. 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.
 3. A high school diploma, GED, or successful completion of the Ability To Benefit (ATB) Test is required.
 4. Financial aid applicants must be under graduate students enrolled in a certificate of achievement, degree, or transfer program.
 5. Students must not owe a refund to any institution for grants received; nor be in loan default in a Stafford or Perkins Loan.
 6. Maintain Satisfactory Academic Progress (SAP) as defined by the Financial Aid Office.
 7. 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.

The Next Step: 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 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 your 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 in two ways.

1. The Internet

Go to www.fafsa.ed.gov A PIN (Personal Identification Number) will be required for both the student and the parent(s) of dependent students. Visit www.pin.ed.gov to apply for a PIN

2. Mail

Complete the paper FAFSA application and return it in the self-addressed envelope attached to the paper FAFSA application.

The Financial Aid Office staff is available to meet with students and assist them in filling out their FAFSA application, online or by mail. In addition, 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.

Locally Funded Programs

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 sources outside of Citrus College. For more information on scholarship opportunities, please visit the Financial Aid Office or go online to:

www.citruscollege.edu/finaid
www.collegeboard.com
www.collegenet.com
www.college-scholarships.com
www.salliemae.com
www.srnexpress.com
www.supercollege.com
www.usafunds.org

For More Financial Aid Information and Assistance

Students are invited and encouraged to contact the following 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

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
 1-800-730-8913 (Hearing Impaired)

Veterans Affairs

Veteran's staff and information is available at the Veteran's counter in the Financial Aid Office, located on the first floor of the Educational Development Building (ED), ED 102.

Citrus College is an approved, degree granting institution for veterans and their eligible dependents. The United States Code (Title 38, Chapters 30, 31, 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/ar
2. Have 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 paper work to the Veterans Representative, located in the Financial Aid Office, ED 102, (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 Financial Aid Office 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 Chapter 30, 31, 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.

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 Program

The International Student Center directs and coordinates international student activities in compliance with federal regulations. Citrus College international students represent 48 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 on page 15 for more information about registration and enrollment.

www.citruscollege.edu/international

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.

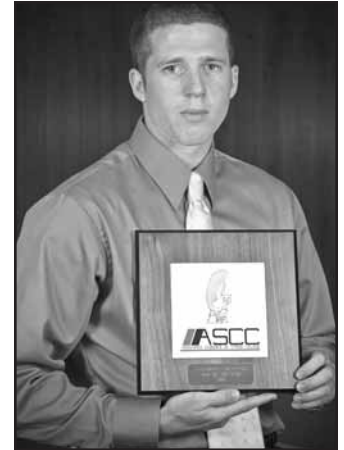
Language Lab

The Learning Center's Language Lab is open to foreign language and ESL students. A fully integrated, digitized audio lab is available for students to practice their foreign language skills. Interactive software and videos are also available from the lab. A lab supervisor is available to assist students.

Anthony Graglia

2008 Citrus College
Man of the Year

The Man of the Year distinction is bestowed upon the top male student who has achieved academic success while being involved on campus and in the community.



Tutorial Services

Peer tutoring is available free of charge to all Citrus College students. Students interested in working with a tutor must enroll for services.

Tutors are Citrus College students who have completed the tutor training program and have successfully completed the course(s) they tutor with a grade of A or B. An online tutoring program is also available through the Learning Center web site.

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.

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 with in their major and have a job in a field that corresponds with their major.
- Service Learning, which integrates community service with what the student is learning in the class.
- The processing of all hiring, termination, and payroll data of on-campus student workers.

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 \$550,000, 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.



2007 Veterans Day Ceremony

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
- 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
- Drumming Arts Society
- Esthetician Club
- Evening Cosmetology Club
- Film Club
- Latino Unidos Student Association
- MAC Users Group
- Middle East Club
- Muslim Student Association

- National Organization for Women (NOW)
- Psi Beta (Psychology Honor Society)
- Psychology Club
- Philosophers' Club
- Photography Club
- Reason, Inquiry, Skepticism, Empiricism
- Role Players Association
- Rotaract
- Students for the Ethical Treatment of Animals
- Vocational Nursing

Vocational Education

The Vocational Education Department is an important resource for Citrus College students who want to prepare for a career. In addition to providing information about classes, the staff also directs students to the programs and services that ensure their success.

Vocational Education also offers assistance in the form of scholarships, textbook loans and job search strategies.



What Additional Resources are Available at Citrus? Campus Facilities and Learning Resources

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)

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 an athletic training room.

The campus' athletic facilities continue to upgrade with the construction of the new two-story Field House, a brand new softball complex, and renovations to the Citrus College Gymnasium. The Field House will provide facilities to support football, baseball, soccer and track. The two-story building will also feature locker rooms, offices, team rooms, concessions, equipment storage, and restrooms. The softball complex, which broke ground earlier this year, will feature two softball fields both with artificial turf in the outfield, synthetic dirt in the infield and brand new state-of-the-art scoreboards. The Citrus College Gymnasium will also undergo a facelift this year. When finished, the upgrades will make the gymnasium one of the best facilities around.

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 local television stations' weather forecasts.

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 bookshop is located adjacent to the Campus Center; hours of operation are listed in each class schedule.

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. Receipts are not needed. 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. Book information will be available one week before the beginning of each semester and session.

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

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.

Fiscal Services/Cashier

Fiscal Services handles all aspects of the college's financial and budgetary matters. This includes student registration fees, child care 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.

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.

Golf Driving Range

The Range At Citrus features two hitting surfaces, natural grass and mats; 8 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 directly 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!

Passport to Travel

A 10-event travelogue series, featuring magnificent film footage, hosted in person by international filmmakers.

Music 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, 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.

Learning Resources

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.

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 and will offer its first winter-intercession in Costa Rica in January 2009.

Library and Research Resources

Computer Labs

The Dan Angel Data Processing Center houses the college's main computer laboratory, several classrooms and the Computer Center administrative offices. The computer laboratory, which is open six days a week, 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 Information Systems (CIS) 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 (PC), 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.

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. 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.



*Vietnam Fruit Boat by Janet Ramirez,
Honorable Mention in Photographers
Forum International Competition.*



*Santa Barbara Mission by Mark Gagliardi,
Finalist in Photographers Forum.*

How Do I Earn a Degree at Citrus College? Programs of Study Leading to an Associate Degree

***Note:** Due to changes in the California Education Code (Title 5), some of Citrus College's policies and procedures have changed. The portions of the catalog that have been impacted by these changes are marked by an asterisk (*). In order to access the revised policy, please view the online catalog at www.citruscollege.edu/catalog or make an appointment with a counselor.

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

Fine and Performing Arts
Language Arts
Social and Behavioral Sciences
Liberal Arts

Programs of Study Leading to an Associate in Science Degree

Administration of Justice	Library Technology
Automotive Technology	Medium & Heavy
Biological and Physical Science	Truck Technology
Business	Photography
Cosmetology	Physical Education
Dental Assisting	Public Works
Digital Design	Vocational Nursing
Drafting	Water Technology

*Requirements for an Associate Degree

1. **A minimum of 60 units.** Only courses numbered **100-299** plus Cooperative Work Experience Education apply toward the associate degree.
2. **A minimum grade point average of 2.0** (C average) in all lower-division college units attempted.
3. *** Residency:** students must complete a **total of 50 units in residence** or their **final 12 units**

in residence at the time of qualification for graduation.

4. Writing Competency Requirement

Completion of any course listed in the English composition section of the general education requirements or equivalent with a grade of "C" or better

Or

Passing the Advanced Placement Exam in English Language and Composition with a score of three or higher

5. Mathematics Competency Requirement

Completion of any mathematics class listed in the mathematics section of the general education requirements with a grade of "C" or better

Or

Completion of one year of high school elementary algebra with a grade of "C" or better, and placement at the level of intermediate algebra or higher on the math assessment test.

6. Reading Competency Requirement

Completion of Reading 099 with a grade of "C" or better.

Or

Passing the Reading Competency Examination.

7. Physical Education Requirement

Completion of three units of any physical education or dance activity course. Varsity team sports do not count.

Or

*** Policy change-visit www.citruscollege.edu/catalog for update or contact a counselor.**

Completion of PE 170, 171 or 173, with a passing grade.

8. ***General Education Requirement**

Completion of 22-25 units of general education. A maximum of six units or two classes from the major requirement may be applied to the general education requirements. (Please see page 49 for further details)

9. **Language, Critical Thinking and Mathematics**

Students taking the mathematics assessment test to meet the competency requirement must complete:

- Two courses, 6 units minimum, including one course from English composition **and** one course from either mathematics or communications and analytical thinking
- Students who have not satisfied the mathematics competency requirement must complete three courses, 9 units minimum, including one course from English, one course from mathematics and one course from communications and analytical thinking
- A grade of C or better is required for all courses taken

Associate Degree General Education Requirements
A maximum of 6 units from the major requirements may be used to meet General Education Requirements. 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. Language, Critical Thinking and Mathematics

(1) 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.

(2) Students who do not satisfy the mathematics competency through the Mathematics Assessment are required to complete 3 courses, 9 units minimum, 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

BUS 152	Business Communications
COMM 101	Reporting and Writing News
ENGL 100	Fundamentals of Composition
ENGL 101	Reading & Composition
ENGL 101H	Reading & Composition
ESL 100	Fundamentals of 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 115	Business Mathematics
MATH 129	Elementary Algebra Tech
MATH 130	Elementary Algebra
MATH 131	Plane Geometry
MATH 148	Intermediate Algebra
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
MATH 191	Calculus w/Analytic Geometry

B. Natural Sciences: (4 units minimum).

One lecture/lab course (lab courses in bold) or 2 lecture courses, one from each area.

BIOLOGICAL SCIENCES

ANTH 212	Physical Anthropology
ANTH 212L	Physical Anthropology Lab
BIOL 104	Biology: Contemporary Topics
BIOL 105	General Biology
BIOL 105H	General Biology
BIOL 109	Biology for Educators
BIOL 116	AIDS: Insights & Implications
BIOL 124	Principles of Biology I
BIOL 125	Principles of Biology II
BIOL 145	Environmental Science
BIOL 200	Human Anatomy
BIOL 201	Physiology
BIOL 210	Nutrition
BIOL 220	Microbiology

PHYSICAL SCIENCES

CHEM 100	Chemistry for Daily Living
CHEM 103	College Chemistry
CHEM 104	College Chemistry
CHEM 106	Chemistry and Physics for Educators
CHEM 110	Beginning General Chemistry
CHEM 111	General Chemistry
CHEM 114	Chemical Principles
ESCI 111	Earth and Space Science for Educators
ESCI 115	Planetary Astronomy
ESCI 115H	Planetary Astronomy
ESCI 116	Stellar Astronomy
ESCI 117	Life in the Universe

ESCI 118	Physical Geography
ESCI 120	Physical Geology
ESCI 121	Historical Geology
ESCI 122	Geology: Earth History
ESCI 124	Environmental Geology
ESCI 125	California Geology
ESCI 130	Physical Oceanography
PHYS 106	Chemistry and Physics for Educators
PHYS 110	Intro to College Physics
PHYS 111	General Physics
PHYS 201	Physics

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
DANC 201	Appreciation and Analysis 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-Renais/Modrn
- ENGL 290 Multicultural Voices in Film
- ENGL 291 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 Interm Spanish for Span Spkrs
- SPAN 211 Reading & Comp for Span Spkrs
- SPAN 298 Spanish V
- SPAN 299 Spanish VI

D. Social and Behavioral Sciences (6 units minimum)

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

I. HISTORY AND POLITICAL SCIENCE

- ECON 100 Economics
- ECON 101 Principles of Economics - Macro
- ECON 102 Principles of Economics - Micro
- GEOG 102 Cultural Geography
- HIST 103 History of World Civilization
- HIST 103H History of World Civilization
- HIST 104 History of World Civilization

- HIST 105 History of World Civilization
- HIST 107 Political & Social History of U.S.
- HIST 107H Political & Social History of U.S.
- HIST 108 Political & Social History of U.S.
- HIST 108H Political & Social History of U.S.
- HIST 109 The World in Conflict /20th Cent., A History
- HIST 110 Survey History of Africa
- HIST 111 History of Afro Americans
- HIST 112 History of Afro Americans
- HIST 117 History of East Asia & Asian Americans
- HIST 120 British Life & Culture
- HIST 123 French Life & Culture
- HIST 125 Mexican Life & Culture
- HIST 127 Spanish Civilization
- HIST 130 History of Latin America
- HIST 139 History of California
- HIST 140 History of the American West
- HIST 145 History of Mexico
- HIST 155 History of the Vietnam War
- HIST 222 History of World War II
- POLI 103 Government of the U.S.
- POLI 103H Government of the U.S.
- POLI 104 Intro to Political Science
- POLI 105 Comparative Politics
- POLI 110 Current American Political Issues
- POLI 116 Contemporary World Politics
- POLI 118 Contemporary Law & Legal Issues

II. BEHAVIORAL SCIENCES

- ANTH 210 Cultural Anthropology
- ANTH 210H Cultural Anthropology
- ANTH 214 Native North America

ANTH 216	Sex & 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

Physical Education Requirement

All students must complete one of the following:

A. Three units of any P.E. activity or dance courses

(No varsity sports courses may be used)

or

B. PE 170, PE 171, or 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, 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 Degrees

A student may receive one associate in arts and one associate in science degree. To be eligible for a second associate degree, a student must complete a minimum of 18 units beyond the 60 units required for the first degree. This includes satisfactory completion of all the required courses of the second major.

Online Degrees

Associate degrees can be earned online through Distance Education. Consult a counselor for details.

Additional information is available at www.citruscollege.edu/de.

* **Policy change-visit www.citruscollege.edu/catalog for update or contact a counselor.**

What Career and Technical Programs Does Citrus 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

Please contact the Automotive Technology Department for current certificate of achievement and degree options.

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

Advanced Drafting Technology - CAD

Architectural Design
Architectural Drafting - CAD
Computer Generated Imagery
Drafting Technology - CAD



Electronics Technician

Emergency Management

Emergency Medical Technician

Engineering

Information Technology

Esthetician

Forestry

Heating and Air Conditioning

Library Technology

Medium & Heavy Diesel Truck Technology

Photography

Public Works I

Public Works II

Public Works/Landscape Management

Theater

Emerging Theatre Technologies

Vocational Nursing

Water Technology

Web Design

Advanced Digital & Web Design
Digital & Web Design

What Career and Technical Programs Does Citrus Offer? Programs of Study Leading to a Skill Award

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

Administration of Justice

Fingerprint Identification & Classification

Automotive Technology

Electrical Systems Diagnosis & Repair
Engine Rebuilding & Machining
Automotive Heating & Air Conditioning

Child Development

Child Development Associate Teacher
Infant & Child Development Associate Teacher
Master Teacher Infant & Toddler Specialist

Health Occupations

Activity Coordinator
Activity & Social Service Documentation
Advanced Medical Technology
Emergency Medical Technician
Hospital Unit Clerk
Medical Terminology
Sub-Acute/Pediatrics Activity Leader



Nursing-Vocational

Home Health Aide
Nurse Assistant
Vocational Nursing

How Do I Transfer to a Four-Year College or University? Transfer Policies and Guidelines

University of California

The University of California (UC) has 10 campuses.

Berkeley	Riverside
Davis	Santa Barbara
Irvine	Santa Cruz
Los Angeles	San Diego
Merced	San Francisco (Medical Center)

What UC Offers

Each campus within the UC system has its own unique geographic, and academic character. The UC offers bachelors, 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 institution 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 as 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 3 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 ASSIST, 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 course work 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, nonresi-

dents 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) 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. The requirements listed here, must be entirely completed and certified in order to be accepted by CSU and UC. 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
PHIL 109	Critical Reasoning and Writing	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.****2A - Math**

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	4
MATH 191	Calculus with Analytic Geometry II	4
MATH 210	Calculus with Analytic Geometry III	4
MATH 211	Differential Equations	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
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DANC 102	History of Dance	3
DANC 201	Appreciation and Analysis 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

3B - Humanities

ENGL 213	Horror Literature	3
ENGL 213H	Horror Literature	3
ENGL 251	Introduction to English Literature I	3
ENGL 252	Introduction to English Literature II	3
ENGL 261	Introduction to American Literature I	3
ENGL 262	Introduction to American Literature II	3
ENGL 271	Introduction to World Literature: Ancient-Medieval	3
ENGL 272	Introduction to World Literature: Renaissance through Modern	3
ENGL 290	Multicultural Voices in Film	3
ENGL 291	Film as Literature	3
ENGL 291H	Film as Literature	3
ENGL 293	Children's Literature	3
ENGL 293H	Children's Literature	3
ENGL 294	Introduction to Shakespeare	3
ENGL 296	Introduction to Folklore	3

HIST 145	History of Mexico	3	CHEM 111	General Chemistry	5
HIST 155	History of the Vietnam War	3	CHEM 112	General Chemistry	5
HIST 222	History of World War II	3	CHEM 114	Chemical Principles	5
4H - Political Science, Government & Legal Institutions			CHEM 115	Chemical Principles	5
POLI 103	Government of the United States	3	CHEM 210	Organic Chemistry	3
POLI 103H	Government of the United States	3	CHEM 220	Organic Chemistry	3
POLI 104	Introduction to Political Science	3	ESCI 115	Planetary Astronomy	3
POLI 105	Comparative Politics	3	ESCI 115H	Planetary Astronomy	3
POLI 110	Current American Political Issues	3	ESCI 116	Stellar Astronomy	4
POLI 116	Contemporary World Politics	3	ESCI 118	Physical Geography	3
4I - Psychology			ESCI 120	Physical Geology	4
PSY 101	Introduction to Psychology	3	ESCI 121	Historical Geology	4
PSY 110	Psychology of Religion I	3	ESCI 122	Geology: Earth History	3
PSY 111	Psychology of Religion II	3	ESCI 130	Physical Oceanography	3
PSY 203	Research Methods in Psychology	3	PHYS 105	Physical Science	3
PSY 205	Developmental Psychology	3	PHYS 110	Introduction to College Physics	4
PSY 206	Child Growth and Development	3	PHYS 111	General Physics	4
PSY 206H	Child Growth and Development	3	PHYS 112	General Physics	4
PSY 212	Abnormal Psychology	3	PHYS 201	Physics	5
PSY 22	Introduction to Social Psychology	3	PHYS 202	Physics	5
PSY 225	Psychology of Human Sexuality	3	PHYS 203	Physics	5
PSY 226	Psychology of Women	3	5B - Biological Science		
4J - Sociology & Criminology			ANTH 212	Introduction to Physical Anthropology	3
ANTH 216	Sex and Gender in a Cross Cultural Perspective	3	ANTH 212L	Introduction to Physical Anthropology Lab	1
SOC 118	Minorities in America	3	BIOL 104	Biology: Contemporary Topics	3
SOC 122	Introduction to Latino Studies	3	BIOL 105	General Biology	4
SOC 201	Introduction to Sociology	3	BIOL 105H	General Biology	4
SOC 201H	Introduction to Sociology	3	BIOL 124	Principles of Biology I (Formerly BIOL 108 prior to F00)	5
SOC 202	Contemporary Social Problems	3	BIOL 125	Principles of Biology II	5
SOC 216	Sex and Gender in a Cross Cultural Perspective	3	BIOL 145	Environmental Science	3
5A - Physical Science			BIOL 200	Human Anatomy	4
CHEM 103	College Chemistry	5	BIOL 201	Physiology	4
CHEM 104	College Chemistry	5	BIOL 220	Microbiology	5
CHEM 110	Beginning General Chemistry	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 102	French II	4

FREN 201	French III	4
FREN 202	French IV	4
GER 102	German II	4
GER 201	German III	4
GER 202	German IV	4
JPN 102	Japanese II	4
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
SPAN 298	Spanish V	3
SPAN 299	Spanish VI	3

* 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

Bakersfield	Northridge
Channel Islands	Pomona
Chico	Sacramento
Dominguez Hills	San Bernardino
Fresno	San Diego
Fullerton	San Francisco
East Bay	San Jose
Humboldt	San Luis Obispo
Los Angeles	San Marcos
Long Beach	Sonoma
Maritime Academy	Stanislaus
Monterey Bay	

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.

While part of the CSU system, each campus has a unique identity, CSU campuses have distinct stu-

dent populations and programs, but all share the same mission to provide high-quality, affordable higher education to meet the ever-changing need of the people of California.

The CSU offers nearly 1,800 bachelor's and master's degree programs in some 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 (CSU) 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 transfers. Students with 60 transferable semester units are considered upper division transfers.

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 transfers so that more upper division transfers 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). Go to www.ASSIST.org for listings of courses at Citrus that meet the CSU general education requirements;

- Acquired a grade point average of 2.0 or better (2.4 for California non-residents) in all transferable college units attempted; and
- Are in 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 impactation) for additional information on impacted programs.

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) see page 56 for IGETC requirements. 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

A1 - Oral Communication

SPCH 100	Interpersonal Communication	3
SPCH 101	Public Address	3
SPCH 101H	Public Address	3
SPCH 106	Small Group Communication	3

A2 - Written Communication

ENGL 101	Reading and Composition	3
ENGL 101H	Reading and Composition	3
ESL 101	Reading and Composition	3

A3 - Critical Thinking

ENGL 103	Composition and Critical Thinking	3
ENGL 103H	Composition and Critical Thinking	3
ENGL 104	Advanced Rhetoric: The Classical Essay	3
PHIL 110	Philosophy-Logic	3
SPCH 103	Argumentation and Debate	3

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

B1 - Physical Science

CHEM 100	Chemistry For Daily Life	4
CHEM 103	College Chemistry	5
CHEM 104	College Chemistry	5
CHEM 106	Chemistry and Physics for Educators	4
Same as: PHYS 106		
CHEM 110	Beginning General Chemistry	5
CHEM 111	General Chemistry	5
CHEM 114	Chemical Principles	5
CHEM 115	Chemical Principles	5
CHEM 210	Organic Chemistry	3
CHEM 220	Organic Chemistry	3
ESCI 111	Earth and Space Science for Educators	4
ESCI 115	Planetary Astronomy	3
ESCI 115H	Planetary Astronomy	3
ESCI 116	Stellar Astronomy	4
ESCI 117	Life in the Universe	3
ESCI 118	Physical Geography	3
ESCI 120	Physical Geology	3
ESCI 121	Historical Geology	3
ESCI 122	Geology: Earth History	3
ESCI 124	Environmental Geology	3
ESCI 125	Stellar Astronomy	4
ESCI 130	Physical Oceanography	3
PHYS 105	Physical Science	3
PHYS 106	Chemistry and Physics for Educators	4
PHYS 110	Introduction to College Physics	4
PHYS 111	General Physics	4
PHYS 112	General Physics	4
PHYS 201	Physics	5
PHYS 202	Physics	5

B2 - Life Science

ANTH 212	Introduction to Physical Anthropology	3
BIOL 104	Biology: Contemporary Topics	3

BIOL 105	General Biology	4
BIOL 105H	General Biology	4
BIOL 109	Biology for Educators	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

B3 - Laboratory Activity

ANTH 212L	Introduction to Physical Anthropology Lab	1
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B4 - Mathematics/Quantitative Reasoning

MATH 151	Plane Trigonometry	4
MATH 160	Survey of Mathematics	3
MATH 162	Introductory Mathematical Analysis	4
MATH 165	Introductory Statistics	4
MATH 165H	Introductory Statistics	4
MATH 169	Mathematics For Educators II	4
MATH 170	College Algebra	3
MATH 175	Pre-Calculus	4
MATH 190	Calculus with Analytic Geometry	4
MATH 191	Calculus with Analytic Geometry II	4
MATH 210	Calculus with Analytic Geometry III	4
MATH 211	Differential Equations	4

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)

ART 100	Art History and Appreciation - Fundamentals	3
ART 101	Art History and Appreciation	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 Architecture	3
ART 110	Introduction to Visual Arts	3
ART 111	Beginning Drawing	3
ART 112	Intermediate Drawing	3
ART 130	Beginning Painting	3
ART 140	Beginning Ceramics	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
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DANC 102	History of Dance	3
DANC 201	Appreciation and Analysis 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
THEA 201	Acting Fundamentals I	3
THEA 202	Acting Fundamentals II	3

C2 - Humanities (Literature, Philosophy, Foreign Language)

COMM 200	Visual Communications	3
ENGL 102	Reading and Composition	3
ENGL 213	Horror Literature	3
ENGL 213H	Honors Horror Literature	3
ENGL 251	Introduction to English Literature I	3
ENGL 252	Introduction to English Literature II	3
ENGL 261	Introduction to American Literature I	3
ENGL 262	Introduction to American Literature II	3

(Micro)

D3 - Ethnic Studies

HIST 111	History of the African-Americans	3
HIST 112	History of the African-Americans	3
HIST 117	History of East Asian Civilizations	3
SOC 118	Minorities in America	3

D4 - Gender Studies

ANTH 216	Sex and Gender in a Cross Cultural Perspective	3
PSY 226	Psychology of Women	3
SOC 216	Sex and Gender in a Cross Cultural Perspective	3

D5 - Geography

ANTH 210	Introduction to Cultural Anthropology	3
GEOG 102	Cultural Geography	3

D6 - History

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	3
HIST 108	Political and Social History of the United States	3
HIST 108H	Political and Social History of the United States	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	3

HIST 112	African-Americans History of the African-Americans	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

D7 - Interdisciplinary Social or Behavioral Science

HIST 120	British Life and Culture	3
HIST 123	French Life and Culture	3
HIST 125	Mexican Life and Culture	3
HIST 127	Spanish Civilization	3
LING 101	Introduction to Language and Linguistics	3
SPAN 127	Spanish Civilization	3

D8 - Political Science, Government and Legal Institutions

POLI 103	Government of the United States	3
POLI 103H	Government of the United States	3
POLI 104	Introduction to Political Science	3
POLI 105	Comparative Politics	3
POLI 110	Current American Political Issues	3
POLI 116	Contemporary World Politics	3
POLI 118	Contemporary Law and Legal Issues	3

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

PSY 226 Psychology of Women 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 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

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, 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 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 kind of 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. 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, e.g., mathematics through calculus and physical chemistry, are often recommended as well. will also apply to subject matter preparation.

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 as well.

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 you complete 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 the 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 prelaw student should carefully choose, with the aid of a counselor or advisor, 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 (administration, economics, English, history, philosophy, political science and sociology, to name a few).

For additional information, a student should see 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.

How are Citrus College's Academic Programs Organized? Instructional Divisions, Departments, and Subjects (with subject codes)

Business, Computer Science and Information Systems

Business

914-8807

Accounting (ACCT)

Business (BUS)

Computer Science and Information Systems (CSIS)

Office Technology & Computer Applications (OFF)

Real Estate (REAL)

Career and Technical Programs

Cosmetology

914-8710

Cosmetology (COS)

Public Services

914-8700

Heating and Air Conditioning (HEAT)

Public Works (PUB)

Water Technology (WATR)

Transportation Technology

852-8022

Automotive Technology (AUTO)

Medium and Heavy Truck Technology (MTRK)

Motorcycle and Personal Watercraft Technology (MOTO)

Counseling

College Preparation (COLL)

Counseling (COUN)

914-8530

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

French (FREN)

German (GER)

Japanese (JPN)

Spanish (SPAN)

Language Arts

914-8856

Communications (COMM)

English (ENGL)

English as a Second Language (ESL)

Reading and College Preparation (READ)

Speech (SPCH)

Library Technology

914-8640

Library Technology (LIBT)

Mathematics

914-8792

Mathematics (MATH)

Physical Education

914-8650

Physical Education (PE)

Science, Engineering and Health

Biological Sciences

914-8789

Biology (BIOL)

Forestry (FOR)

Natural History (NAT)

Health Sciences

914-8720

Dental Assisting (DENT)

Emergency Management (EMER)

Health Sciences (HEAL)

Registered Nursing/Associate Degree in Nursing (RNRS)

Vocational Nursing (VNRS)

Physical Sciences and Engineering

914-8788

Chemistry (CHEM)
 Drafting Technology (DRAF)
 Earth Sciences/Astronomy (ESCI)
 Electronics (ELEC)
 Engineering (ENGR)
 Physics (PHYS)

Social and Behavioral Sciences

Social Sciences

914-8860

Economics (ECON)
 Geography-Cultural (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)

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 ones listed here by division and department.

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

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)

Transportation 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)
 Specialty Equipment Market Association (SEMA)
 State of California Department of Consumer Affairs
 Toyota/Lexus/Scion Technician Training & Education Network (T-TEN)

Course Code Directory

Accounting	ACCT	History	HIST
Administration of Justice	AJ	Humanities	HUM
Anthropology	ANTH	Japanese	JPN
Art	ART	Library Technology	LIBT
Automotive Technology	AUTO	Linguistics	LING
Biology	BIOL	Mathematics	MATH
Business	BUS	Medium & Heavy Diesel Truck Tech.	MTRK
Chemistry	CHEM	Motorcycle and Watercraft Tech.	MOTO
Child Development	CHLD	Music	MUS
College Preparation	COLL	Natural History	NAT
Communications	COMM	Nursing-Vocational	VNRS
Computer Science & Info Systems	CSIS	Nursing-Registered	RNRS
Cosmetology	COS	Office Technology	OFF
Counseling	COUN	Philosophy	PHIL
Dance	DANC	Photography	PHTO
Dental Assisting	DENT	Physical Education	PE
Disabled Students Programs & Services	DSPS	Physics	PHYS
Drafting Technology	DRAF	Political Science	POLI
Earth Science	ESCI	Psychology	PSY
Economics	ECON	Public Works	PUB
Electronics	ELEC	Reading	READ
Emergency Management	EMER	Real Estate	REAL
Engineering	ENGR	Recording Technology	REC
English	ENGL	Social Sciences	SOCS
English as a Second Language	ESL	Sociology	SOC
Forestry	FOR	Spanish	SPAN
French	FREN	Speech	SPCH
Geography, Cultural	GEOG	Theatre Arts	THEA
German	GER	Water Technology	WATR
Health Sciences	HEAL		
Heating & Air Conditioning	HEAT		

A Guide to Understanding the Course Descriptions

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: designates 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. Credit/No Credit (Cr/Nc): the student can choose to make the course to receive a credit/no credit 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.

1 → **Dance**

(Fine & Performing Arts Department) **3**

2 → **DANC 275 Performance Ensemble (3) (Cr/Nc)**

4 → *Corequisite: Concurrent enrollment required in DANC 171 or 172 and 261 or 262.*

5 → 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.

6 → This course may be taken four times. 18 lecture hours, 108 lab hours. CSU;UC

7 → **French**

(Foreign Languages Department)

8 → **French Courses**

9 → **FREN 101 FRENCH I (4) (Cr/Nc)**

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. 72 lecture hours, 18 lab hours. CSU;UC

10 → **FREN 102 French II (4) (Cr/Nc)**

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. 72 lecture hours, 18 lab hours. CSU;UC

course descriptions



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.

Certificates of Achievement

ACCOUNTING

REQUIRED COURSES: ACCT 101, 102; OFF 101, or OFF 120, BUS 130, 132.

Plus one of the following:

BUS 146, BUS 150, BUS 152, BUS 160

Accounting Courses

(See Also Business, Office Technology and Computer Science and Information Systems, and Real Estate)

ACCT 100 Accounting (3) (Cr/Nc)

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.

ACCT 101 Financial Accounting (4)

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)

Strongly recommended: ACCT 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)

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) (Cr/Nc)

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)

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.

Certificates of Achievement:

ADMINISTRATION OF JUSTICE

REQUIRED COURSES: AJ 101, 102, 103, 109, 112; ENGL 100 or 101 or AJ 123 or 133 plus one elective AJ course

ELECTIVES: One AJ course (3 units)

EMPLOYMENT OPPORTUNITY:

Entry level police cadet/police officer

Skill Award:

FINGERPRINT IDENTIFICATION AND CLASSIFICATION

REQUIRED COURSES: AJ 117

Administration of Justice Courses

AJ 101 Introduction to the Administration of Justice (3) (Cr/Nc)

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 interrelationships; 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) (Cr/Nc)

Strongly recommended: READ 099 if required by reading 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) (Cr/Nc)

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 deci-

sions interpreting individual rights and case studies. 54 lecture hours. CSU

AJ 105 Criminal Investigation (3) (Cr/Nc)

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 caspreparation. 54 lecture hours. CSU

AJ 106 Patrol Procedures (3) (Cr/Nc)

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, pullover 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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: AJ 101.

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) (Cr/Nc)

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) (Cr/Nc)

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 117 Fingerprint Identification and Classification (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Science of fingerprints as it relates to civilian and law enforcement work including techniques and procedures involved in identification and classification of fingerprints, latent impressions, court presentation, and print lifting at crime scene. 54 lecture hours. CSU

AJ 118 Police Supervision (3) (Cr/Nc)

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) (Cr/Nc)

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, memoranda, 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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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

Cooperative Education Courses

AJ 698A Cooperative Education (1) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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. 75 lab hours arranged per semester.

AJ 699B Cooperative Education (2) (Cr/Nc)

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.

AJ 699C Cooperative Education (3) (Cr/Nc)

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) (Cr/Nc)

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)

Anthropology Courses

ANTH 210 Introduction to Cultural Anthropology (3) (Cr/Nc)

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 skills. College level reading is strongly advised for success in the course. 54 lecture hours. CSU;UC

ANTH 210H Introduction to Cultural Anthropology (3) (Cr/Nc)

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. Students are expected to work and participate at an honors level which includes strong critical thinking skills, thorough analysis of anthropological readings, presentation and leadership skills demonstrated through class participation/presentation, and service learning in the community. 54 lecture hours. CSU;UC

ANTH 212 Introduction to Physical Anthropology (3)

Co-requisite: 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 adaptation to the environment. College level reading is highly recommended for success in the course. 54 lecture hours. CSU;UC

ANTH 212L Introduction to Physical Anthropology Lab (1)

Co-requisite: 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. College Level reading is highly recommended for success in the course. 54 lab hours. CSU;UC

ANTH 214 Native North America (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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 Sex and Gender in a Cross Cultural Perspective (3)

Strongly recommended: A lso, READ 099 if required by reading placement exam or if required by reading level.

Introduction to Sociology 201 OR Introduction to Cultural Anthropology 210.

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 (3)

Strongly recommended: READ 099 if required by reading placement exam or by reading level. Member of the honors program in good standing, or recommendation from an honors instructor.

Introduction to Cultural Anthropology 210 OR Introduction to Sociology 201.

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, presentation, and leadership skills demonstrated through class participation/presentation. 54 lecture hours. CSU;UC

ANTH 218H Honors Presentation Seminar (0.5)

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 Archaeology (3)

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

Art

(Fine and Performing Arts Department)

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.

Certificates of Achievement:

CERAMICS-ONE YEAR

REQUIRED COURSES: ART 111, 120, 140, 141, 145 plus two electives

ELECTIVES: ART 104, 105, 106, 130, 180, 215;

PHOTO 101

EMPLOYMENT OPPORTUNITY:

Studio Potter, Ceramic Shop (retail)

DIGITAL AND WEB DESIGN

REQUIRED COURSES: ART 111, 120, 150, 162; CSIS 185; ENGR 110, 112, 114, 115; PHTO 101

ADVANCED DIGITAL AND WEB DESIGN

REQUIRED COURSES: Digital and Web Design certificate of achievement plus ART 163; DRAF 190; ENGR 111, 113, 116,117

Skill Awards:

ADVANCED MULTIMEDIA/WEB DESIGN

REQUIRED COURSES:

Multimedia/Web Design certificate of achievement plus ART 163; ENGR 111, or ART 253, ENGR 115

Art Courses

ART 100 Art History and Appreciation - Fundamentals (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement or if required by reading level.

A course designed to further the general education of all students. 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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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

ART 104 Art History and Appreciation-19th Century Art (3) (Cr/Nc)

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

ART 105 Art History and Appreciation - 20th Century Art (3) (Cr/Nc)

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

ART 106 Art History and Appreciation - Pre-Columbian (3) (Cr/Nc)

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 fundamentals of art as well as its history. 54 lecture hours. CSU;UC

ART 110 Introduction to the Visual Arts (3)

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

ART 111 Beginning Drawing (3) (Cr/Nc)

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

ART 112 Intermediate Drawing (3) (Cr/Nc)

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

ART 113 Drawing for Spatial Manipulation (3) (Cr/Nc)

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

ART 115 Figure Drawing I (3) (Cr/Nc)

Prerequisite: ART 111.
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 the live model. This course may be taken three times. 36 lecture hours, 72 lab hours. CSU;UC

ART 116 Figure Drawing II (3) (Cr/Nc)

Prerequisite: ART 115.
A continuation of the structural study of the figure with emphasis placed on the exploration of the 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

ART 120 Two-Dimensional Design (3) (Cr/Nc)

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

ART 121 Three-Dimensional Design (3) (Cr/Nc)

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

ART 122 Color Theory and Composition (3)

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

ART 125 Interior Design I (2) (Cr/Nc)

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

ART 126 Interior Design II (2) (Cr/Nc)

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

ART 130 Beginning Painting (3) (Cr/Nc)

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

ART 131 Intermediate Painting (3) (Cr/Nc)

Prerequisite: ART 130.

Development of expressive painting concepts and techniques in oil and acrylic, with emphasis on historical, theoretical, and cultural meanings. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU;UC

ART 140 Beginning Ceramics (3) (Cr/Nc)

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 hand building 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 Ceramic (3) (Cr/Nc)

Prerequisite: ART 140.

This course further develops basic pottery skills by introducing new forms on the potter's wheel and additional decorating and glazing techniques. This course may be taken four times. 36 lecture hours, 72 lab hours. CSU;UC

ART 142 Experimental Ceramics (3) (Cr/Nc)

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 hand building 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 Hand building (3) (Cr/Nc)

This course is an introduction to ceramic hand building 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) (Cr/Nc)

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 149 Studio Problems in Ceramics (1) (Cr/Nc)

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) (Cr/Nc)

Strongly recommended: Ability to draw, design, and type.

This introductory computer art course is designed for people interested 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. This course may be taken three times. 36 lecture hours, 72 lab hours. CSU

ART 153 Digital Media Production I (3) (Cr/Nc)

Prerequisite: CSIS 130.

An overview of multimedia production and associated technology. The course will use Illustrator, PhotoShop and other software in the development of graphic pre-

sentations 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 157 Digital Color File Manipulation (3)

An introduction course in 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. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU

ART 158 Commercial Graphic Design (3) (Cr/Nc)

Strongly recommended: ART 111 and ART 120.
Students will examine graphic design in advertising, corporate identity, video, billboards and print media. Utilizing Illustrator, PhotoShop and Quark software, students will apply principles of color theory, layout and typography to their design concepts preparing them for print. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU

ART 162 Computer Graphics I (3) (Cr/Nc)

Strongly recommended: ART 150 and ART 158.
An introduction and skill development course using the computer as a tool for graphic design and page layout projects where basic design, personal creativity, typography, illustration, and production techniques are implemented. An emphasis is placed on understanding the role of graphic design and the designer in contemporary society and how computer technology plays a major part in this rapidly developing career field. Software includes: current software applications. This course may be taken three times. 36 lecture hours, 72 lab hours. CSU

ART 163 Computer Graphics II (3) (Cr/Nc)

Prerequisite: ART 162.
This course advances the experiences in ART 162, through additional projects in graphic design, layout, and presentation. Adobe Illustrator, Photoshop, and QuarkXPress computer software is used in combination with digital imaging hardware to create visual communication projects relating to business, education, and public services. Work produced is to be of portfolio quality. This course may be taken two times. 36 lecture hours, 72 lab hours. CSU

ART 166 Computer Illustration and Fine Art I (3) (Cr/Nc)

Strongly recommended: ART 111 and ART 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) (Cr/Nc)

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 Computer Animation I (3) (Cr/Nc)

Prerequisite: ART 150.
The focus of this course is visual communication using fundamentals of two- and three-dimensional tilting computer and character animation with an output to video tape. This technology is used in many areas including business, education, and entertainment. Students develop projects that involve scripting, storyboarding, action, transition, and timing, in the development of portfolio selections. 36 lecture hours, 72 lab hours. CSU

ART 180 Beginning Clay Sculpture (3) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: ART 180.
Intermediate clay sculpture classes will include modeling techniques, application of color, clay sculpting methods and sculpture concepts. Students will work with human models, animals, birds and other topics with emphasis on composition and craftsmanship. 36 lecture hours, 72 lab hours. CSU;UC

ART 182 Advanced Clay Sculpture I (3) (Cr/Nc)

Prerequisite: ART 181.
Clay sculpture classes will include clay techniques, application of color, sculpting methods, and sculpting methods and sculpture concepts. Students may design and construct medium size hand built sculpture of the

human model, human head, animal, bird, or other topic. 36 lecture hours, 72 lab hours. CSU;UC

ART 183 Advanced Clay Sculpture II (3) (Cr/Nc)

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)

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)

Prerequisite: 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/collateral materials, 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.

ART 189 Art Portfolio and Resume Production (3)

Prerequisite: 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.

ART 199 Motion Picture Appreciation (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introductory course in which the student will learn how to analyze films on technical, aesthetic, and thematic levels. Historically significant films will be used as source material. Proficiency will be demonstrated in criti-

cal essays. 54 lecture hours. CSU;UC

ART 200 History of Motion Pictures (3) (Cr/Nc)

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. 54 lecture hours. CSU;UC

ART 201 History of Motion Pictures (3) (Cr/Nc)

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. 54 lecture hours. CSU;UC

ART 206 History of Latin American Art (3)

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. 54 lecture hours. CSU;UC

ART 207 History of Asian Art, China, Korea, and Japan (3)

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. 54 lecture hours. CSU;UC

ART 213 Advanced Drawing Pastels and Mixed Media (3)

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)

Prerequisite: ART 115.

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)*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)*Prerequisite:* ART 111 and ART 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) (Cr/Nc)*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) (Cr/Nc)*Prerequisite:* ART 130 and ART 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.

ART 232 Advanced Painting (3) Cr/Nc)*Prerequisite:* ART 130 and 131.

Personalized exploration of expressive painting concepts and technical and aesthetic concerns, content, and historical/cultural influences. This course may be taken three times. 36 lecture, 72 lab hours. CSU;UC

ART 234 Beginning Watercolor Painting (3) (Cr/Nc)*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)*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) (Cr/Nc)*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 Credit/No Credit grading only. 36 lecture hours, 72 lab hours. CSU;UC

ART 240 Advanced Ceramics I (3) (Cr/Nc)*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) (Cr/Nc)*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 253 Digital Media Production II (3)*Prerequisite:* ART 153.

Introduction, creative application, and interaction of video and sound editing, 2D and 3D animation technology, printed materials and Web page design, as associated with multimedia/entertainment/advertising, will be explored to produce a multimedia presentation. 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)

Prerequisites: ART 163, ART 253, ART 267 and DRAF 190. *Completion of Digital and Web Design Certificate of Achievement.*

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 Art II (3)

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 World Wide Web Design II (3) (Cr/Nc)

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 Computer Animation II (3) (Cr/Nc)

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. 36 lecture hours, 72 lab hours. CSU

Cooperative Education Courses

ART 698A Cooperative Education (1) (Cr/Nc)

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 lab hours arranged per semester.

ART 698B Cooperative Education (2) (Cr/Nc)

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 lab hours arranged per semester.

ART 698C Cooperative Education (3) (Cr/Nc)

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 lab hours arranged per semester.

ART 698D Cooperative Education (4) (Cr/Nc)

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 lab hours arranged per semester.

ART 699A Cooperative Education (1) (Cr/Nc)

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 lab hours arranged per semester.

ART 699B Cooperative Education (2) (Cr/Nc)

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 lab hours arranged per semester.

ART 699C Cooperative Education (3) (Cr/Nc)

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 lab hours arranged per semester.

ART 699D Cooperative Education (4) (Cr/Nc)

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 lab hours arranged per semester.

Astronomy

(Physical Sciences and Engineering Department)

Astronomy is concerned with celestial bodies and their structure, origin and fate.

Astronomy Courses

ESCI 111 Earth and Space Science for Educators (4)

Prerequisites: CHEM 106 and/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 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

ESCI 115 Planetary Astronomy (3)

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, 18 lab hours. CSU;UC

ESCI 115H Honors Planetary Astronomy (3)

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, 18 lab hours. CSU;UC

ESCI 116 Stellar Astronomy (4)

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, interstellar 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, 72 lab hours. CSU;UC

ESCI 117 Life In The Universe (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The origin 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, 18 lab hours. CSU

Automotive Technology

(Transportation Technology Department)

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.

Certificates of Achievement:

TOYOTA/LEXUS AUTOMOTIVE TECHNOLOGY-TWO YEAR

REQUIRED COURSES: AUTO 109 or 181, and 112, 114, 213, 214, 251, 270 plus 3 of the following: CSIS 130; ENGL 100: ENGL 101 MATH 129 or a higher level of Math; PHYS 110.

EMPLOYMENT OPPORTUNITY:

Entry level technician at a Toyota or Lexus dealership.

ASC 'FASTTRACK' AUTOMOTIVE TECHNOLOGY-TWO YEAR

REQUIRED COURSES: AUTO 120, 150, 181, 200, 202, 253, 270 plus 3 of the following. CSIS 130;ENGL 100:ENGL 101 MATH 129 or a higher level of Math;PHYS 110.

EMPLOYMENT OPPORTUNITY:

Entry level technician at an independent or franchise shop.

AUTOMOTIVE TECHNOLOGY VENDING-ONE YEAR

REQUIRED COURSES: 18 units from the following: AUTO 101, 107, 125, 128, 129, 160, 170, 180, 181, 210, 221, 270 plus three of the following: CSIS 130; ENGL 100 or 101; MATH 129 or a higher level of Math, PHYS 110.

EMPLOYMENT OPPORTUNITY:

Entry level to advanced General Automotive Technician at an independent shop or a dealership

ENGINE PERFORMANCE, DIAGNOSIS, AND EMISSIONS

REQUIRED COURSES: AUTO 120 or 112, PLUS 128, 129, 130, 131

EMPLOYMENT OPPORTUNITY:

Licensed Smog Technician

HIGH PERFORMANCE INSTITUTE

REQUIRED COURSES: AUTO 290, 260, 261, 291, 292, 293, 294, 295 plus three of the following: ENGL 100; CSIS 130; or MATH 115 or MATH 129 or MATH 130; PHYS 110.

Additional required studies - minimum of two classes: BUS 130, BUS 132 or BUS 170.

EMPLOYMENT OPPORTUNITY:

Entry level positions in the aftermarket industry.

Skill Awards:

AUTOMOTIVE HEATING AND AIR CONDITIONING

REQUIRED COURSES: AUTO 181 or 109; and AUTO 270

EMPLOYMENT OPPORTUNITY:

Licensed Air Conditioning Technician

ELECTRICAL SYSTEMS DIAGNOSIS AND REPAIR

REQUIRED COURSES: AUTO 109 or 181; and AUTO 180

EMPLOYMENT OPPORTUNITY:

Entry level body electrical and electrical systems technician

ENGINE REBUILDING AND MACHINING

REQUIRED COURSES: AUTO 260, 261, and 262

EMPLOYMENT OPPORTUNITY:

Entry level engine machinist

Automotive Technology Courses

AUTO 098 A8 ASE Preparation (1) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course will prepare students for the ASE (Automotive Service Excellence) exam in A8-Engine Performance. It is designed for students with the appropriate educational or work experience who need to review test topics prior to taking the test. 18 lecture hours.

appropriate educational or work experience who need to review test topics prior to taking the test. 18 lecture hours.

AUTO 099 L1 ASE Preparation (1) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course will prepare students for the ASE (Automotive Service Excellence) exam in L1-Advanced Engine Performance Specialist. It is designed for students with the appropriate educational or work experience who need to review test topics prior to taking the test. 18 lecture hours.

AUTO 100 Automotive Technology and Maintenance for the Consumer (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Intended for non-majors. Automobiles and light trucks will be explained from the point of view of the consumer. Operation of essential automotive technologies is central to the course goal of skill development in the inspection of various automobile systems for needed repairs and/or maintenance performed by the end-user. Appropriate lab activities in automobile inspection, service and repair are included. 54 lecture hours, 18 lab hours. CSU

AUTO 101 Fundamentals of Automotive Service, Diagnosis and Repair (5) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Intended for automotive majors, this class serves as the pre-requisite for all automotive certificate of achievement and/or degree applicable courses. Automobiles and light trucks will be explored from the point of view of the service technician. Scientific principles and operation of essential automotive technologies are central to the course goal of preparing students for entry into the automotive core curriculum. Appropriate lab activities in automobile inspection, service and repair are included. 72 lecture hours, 54 lab hours.

AUTO 102 Introduction to Automotive Parts Specialist (3) (Cr/Nc)

This course will cover vehicle identification methods and cataloging skills, including use of paper and computer parts catalogs, required of those individuals seeking employment in an automotive parts store or at a parts counter in an automotive dealership. 54 lecture hours.

AUTO 103 Automotive Parts Inventory Management/Merchandising (1) (Cr/Nc)

This course will cover inventory management skills necessary for those students seeking employment in the automotive parts field, including stock rotation, special orders, exchanges, and displays. 18 lecture hours.

AUTO 106 Parts Counterperson - Basic Parts and Accessories (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course will cover the basic theory and identification of parts and components on the automobile and what parts are required for various automotive services. Course prepares students seeking employment in an automotive parts store or at a parts counter in an automotive dealership. 36 lecture hours.

AUTO 107 Introduction to Engine Performance and Diagnosis (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A basic class for the beginner which includes electrical theory and service of the ignition and charging system, and minor tune-up procedures. 54 lecture hours.

AUTO 108 Introduction to Transportation Technology (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course will offer an overview of technology used in the vehicle, diesel and gasoline powered arena. It will provide students with a basic knowledge of gasoline and diesel vehicle technology, including personal watercraft, motorcycles, and collision repair. The course will also cover necessary requirements and equipment to enter this career field. This course may be taken two times. 36 lecture hours, 54 lab hours.

AUTO 109 Toyota/Lexus Body Electrical Diagnosis (3) (Cr/Nc)

This highly specialized and accelerated course, offering training on Toyota vehicles only, is designed to meet Toyota T-TEN training requirements and should be considered only by those with a strong automotive background. The course covers Basic Electrical Theory and Body Electrical Diagnosis. Emphasis is placed on electrical theory and troubleshooting body electrical problems using appropriate test equipment. Dealership sponsorship strongly recommended along with interview by department. 36 lecture hours, 54 lab hours.

AUTO 112 Toyota Engine Performance, Diagnosis, and Electrical (9) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This highly specialized and accelerated course, offering training on Toyota vehicles only, is designed to meet Toyota T-TEN training requirements and should be considered only by those with a strong automotive background. The course includes an introduction to the theory of electricity, electronics and the use of hand held meters and testers and the theory of operation, diagnosis and repair of engine computer control systems including ignition, fuel injection, and emission control. Battery, charging, starting, electrical accessories and wiring is also covered along with the use of computer diagnostic equipment including Toyota factory specialized diagnostic equipment. Dealership sponsorship strongly recommended along with interview by department. 108 lecture hours, 180 lab hours.

AUTO 114 Toyota Brakes, Suspension, Alignment, and Steering (9) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This highly specialized and accelerated course, offering training on Toyota vehicles only, is designed to meet Toyota T-TEN training requirements and should be considered only by those with a strong automotive background. The course covers the operation, diagnosis and repair of braking, suspension and steering systems. Toyota's ABS and active suspension systems are included. Emphasis is placed on using factory approved procedures for completing all types of brake and suspension service. Extensive training given in doing alignments on all types of Toyota vehicles and the use of 4-wheel computer alignment equipment. Dealership sponsorship strongly recommended along with interview by department. This course may be taken two times. 108 lecture hours, 162 lab hours.

AUTO 120 Engine Performance and Diagnosis (9) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Course covers the theory of operation, diagnosis, repair and service of engines, ignition, fuel, and related systems. Basic electrical and electronics is covered along with electronic ignition systems including DIS, fuel systems including fuel injection, and engine computer control. Emphasis is placed on diagnosis, testing and repair of ignition, fuel, and engine computer control systems using digital meters, oscilloscopes, DSO'S, scanners,

dynamometers, and 4 and 5 gas analyzers. Course prepares students for the ASE A8, Engine Performance certification. This course may be taken two times. 108 lecture hours, 180 lab hours.

AUTO 125 Advanced Engine Performance and Diagnosis (3) (Cr/Nc)

Course prepares students for diagnosis of ignition systems, distributor less ignition, exhaust gas analysis, and the fundamentals of scanner and DSO operation to access trouble codes and data on late model vehicles. Curriculum will include DMM operation, electronic ignition systems used by Ford, GM, and Toyota, ignition analysis using an oscilloscope, generic distributor less ignition troubleshooting procedures, 4 gas analysis, OBD I computer control and fuel injection operation, and basic scanner and DSO operation. This course will help prepare the student for the ASE A8 test. This course may be taken two times. 54 lecture hours.

AUTO 128 Electronic Fuel Injection and Computer Controls (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course will cover the fundamentals of engine computer control systems common to most engine computer control systems. In-depth coverage of Ford and General Motors engine computer control systems including operation, diagnosis, repair and use of specialized test and repair equipment. AUTO 129 will continue where this course leaves off. 54 lecture hours.

AUTO 129 Advanced Engine Computer Controls (3) (Cr/Nc)

Prerequisites: AUTO 112 or AUTO 120 or AUTO 128. This course is a continuation of AUTO 128, covering the operation, diagnosis and repair of engine computer control systems for Chrysler and import vehicles. (This course will not cover fundamentals of computer control systems which were covered in AUTO 128.) 54 lecture hours.

AUTO 130 Basic Smog Technician (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Meets Bureau of Repair smog license requirement for Basic Smog Technician Clean Air Car Course for smog license. Areas covered includes emission control systems, emission rules and regulations, use of emission tester and emission inspection, and testing procedures. This course may be taken two times. 18 lecture hours, 90 lab hours.

AUTO 131 Advanced Smog Technician (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam.

Meets Bureau of Automotive Repair requirements clean air car course for renewal of Smog License. Areas covered include ASM under load testing, IM240 emission testing, use of 4 and 5 gas analyzers, DSO analyzers, diagnosing emission failures including feedback systems, CAT converter, and O2 testing procedures. This course may be taken two times. 36 lecture hours.

AUTO 135 Bureau of Automotive Repair (BAR) On-Board Diagnostics II (1)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Meets Bureau of Automotive Repair smog license update requirement for the State of California 20 hour OBDII Diagnostics Program. The OBDII training program is generic in nature and is not intended to cover any individual vehicle manufacturer's system. It is intended to cover commonalities between all manufacturers and to discuss the generic approach to OBDII. One hour lecture, one-quarter hour lab per week. 18 lecture hours, 4.5 lab hours.

AUTO 140 Principles of Automotive Technology (3) (Cr/Nc)

Strongly recommended: MATH 029 or Math Level 2. READ 099 if required by reading placement exam or if required by reading level.

A course that covers analogies in mechanical, fluid, electrical, and thermal systems and how they apply to the automobile. The use of problem solving techniques, with emphasis placed on hands-on laboratory activities, will be used in practical applications. 36 lecture hours, 54 lab hours.

AUTO 142 Drivetrain Systems (5)

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. The course covers essential Drivetrain theory; inspection, diagnosis, service & repair of manual and automatic transmissions and transaxles, including four-wheel/all-wheel drive systems. The course prepares students for

the ASE Automatic Transmission and Transaxle (A2) and Manual Drivetrain and Axles (A3) certification exams. 72 lecture hours, 54 lab hours.

AUTO 144 Chassis Systems (5)

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. The course covers essential chassis system theory; inspection, diagnosis, service & repair of the following undercar systems: Brake, steering, suspension, alignment, wheels and tires. Ride control and ABS are introduced. 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)

Strongly recommended: 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)

Prerequisite: AUTO 101.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level or higher. Also, Math 129 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 & repair of specific electrical systems including the battery, starting systems, charging systems, lighting systems, gauges, instrument-panel warning lights and power accessories. Prepares students for ASE Electrical & Electronic

Systems (A6) certification. 54 lecture hours, 54 lab hours.

AUTO 148 Engine Control Systems (5)

Prerequisite: AUTO 101.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, MATH 129 or 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 & repair of the following systems: Ignition, air and fuel delivery, electronic engine controls, and auxiliary emission controls. Course prepares students for ASE Engine Performance (A8) certification. 72 lecture hours, 54 lab hours.

AUTO 150 Suspension, Alignment, and Brakes (9)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Course covers the theory of operation, diagnosis, service and repair of braking, suspension, and steering systems. Emphasis is placed on complete brake services including related machine operations, rebuilding suspension systems, wheel alignments including electronic 4-wheel alignments and wheel balancing. Theory of operation, diagnosis, and repair of ABS systems is covered along with the use of ABS scanners and ABS test and repair equipment. Course prepares students for the ASE A4, Suspension and Steering and ASE A5, Brakes certification tests. This course may be taken two times. 108 lecture hours, 162 lab hours.

AUTO 151 Engine Service, Diagnosis and Repair (5)

Prerequisite: AUTO 101.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, MATH 129 and ENGL 100 or higher.

Intended for those seeking a career in the automotive service and repair industry, this NATEF certified course is one component of the T-TEN and TEC programs. The course covers essential engine theory, inspection, diagnosis, service & repair. Engine disassembly, inspection, measurements and assembly are covered, with emphasis on in-vehicle repairs. Course prepares students for ASE Engine Repair (A1) certification exam. 54 lecture hours, 108 lab hours, 27 lab hours arranged.

AUTO 154 Chassis Service, Diagnosis, and Repair (8)

Prerequisite: AUTO 101.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, MATH 129 and ENGL 100 or higher.

Intended for those seeking a career in the automotive service and repair industry, this NATEF certified course is one component of the T-TEN and TEC programs. The course covers essential chassis system theory, along with inspection, diagnosis, service & 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, 108 lab hours, 27 lab hours arranged.

AUTO 156 Automotive Electrical/Electronic Systems I (4)

Prerequisite: AUTO 101.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, MATH 129 or ENGL 100 or higher.

Intended for those seeking a career in the automotive service and repair industry, this NATEF certified course is one component of the T-TEN and TEC programs. This class covers essential electrical and electronic systems theory, along with inspection, diagnosis, service & 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.

AUTO 160 Automotive Brakes (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course meets requirements for state licensing and includes conventional brakes, disc, air, hydraulics, and related machine practices. 54 lecture hours.

AUTO 162 Drivetrain Service, Diagnosis and Repair (8)

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 NATEF certified course is one component of the T-TEN and TEC programs. This course focuses on the service, diagnosis and repair of the manual and automatic automotive drivetrain systems. Appropriate lab activities in automobile drivetrain

inspection, service and repair are included. The course prepares students for the ASE Automatic Transmission and Transaxle (A2) and Manual Drivetrain and Axles (A3) certification exams. 108 lecture hours, 108 lab hours, 27 labs hours arranged.

AUTO 166 Automotive Electrical/Electronic Systems II (3)

Prerequisite: AUTO 156.

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 NATEF certified course is one component of the T-TEN and TEC programs. This class covers advanced electrical and electronic systems theory, along with inspection, diagnosis, service & repair of specific accessory systems including supplemental restraint, navigation, entertainment, power windows/locks/seats, customizable body electronics, hybrid vehicle controls and multiplex systems. Prepares students for ASE Electrical & Electronic Systems (A6) certification. 36 lecture hours, 54 lab hours.

AUTO 167 Automotive HVAC Service, Diagnosis & Repair (3)

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 NATEF certified course is one component of the T-TEN and TEC programs. This class covers essential heating, ventilation and air conditioning system theory, along with inspection, diagnosis, service & repair of specific HVAC subsystems including: Refrigeration, air distribution and automatic temperature control. Course prepares students for ASE Heating and Air Conditioning (A7) certification. 36 lecture hours, 36 lab hours, 18 lab hours arranged.

AUTO 168 Engine Control Systems Service, Diagnosis and Repair (8)

Prerequisite: AUTO 101.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, AUTO 151 and MATH 029 or higher and ENGL 100 or higher.

Intended for those seeking a career in the automotive service and repair industry, this NATEF certified course is one component of the T-TEN and TEC programs. The

course covers essential engine management system theory, along with inspection, diagnosis, service & repair of the following systems: Ignition, air and fuel delivery, electronic engine controls, and auxiliary emission controls. Course prepares students for ASE Engine Performance (A8) certification. 108 lecture hours, 108 lab hours, 27 lab hours arranged.

AUTO 170 Steering, Suspension, and Alignment (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The theory, operation and diagnosis of suspensions, steering systems, wheel alignments, and tires. 54 lecture hours.

AUTO 171 Advanced Steering, Suspension, and Four Wheel Alignment (2) (Cr/Nc)

Prerequisite: AUTO 114 or AUTO 150 or AUTO 170.

The course covers 4-wheel computerized alignment; advanced chassis geometry, aftermarket shim selection and adjustment procedures on front and rear wheels; selection and installation of alignment kits on modified suspension systems, and vibration correction. 18 lecture hours, 54 lab hours.

AUTO 180 Automotive Electrical Systems (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An automotive electrical class dealing with all of the automotive electrical systems and components with the exception of the ignition system. This class will include principles of operation, troubleshooting, test procedures, servicing and repair of the automotive electrical components and system. 54 lecture hours.

AUTO 181 Body Electrical Diagnosis (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Course covers theory of electrical and electronics. Reading wiring diagrams, application of electrical wiring service manuals in diagnosis of electrical and wiring failures. Diagnosis and repair of various body electrical systems including body computer systems is covered along with the use of the latest electronic diagnostic tools, meters and test equipment. Course prepares students for the ASE A-6 certification test. This course may be taken two times. 36 lecture hours, 54 lab hours.

AUTO 190 Introduction to Compressed Natural Gas Vehicles (3) (Cr/Nc)

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 200 Automatic Transmissions and Diagnostic Repair (6) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The theory of operation, diagnosis, testing, service and modification of domestic and foreign automatic transmissions. Course prepares students for the ASE A2 certification test. This course may be taken two times. 54 lecture hours, 162 lab hours.

AUTO 202 Manual Drivetrain (4) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Course covers the theory of operations, diagnosis, and repair of manual transmissions, drive axle and shaft assemblies, transfer cases, clutches, and electrical and electronic systems. Emphasis is placed on rebuilding manual transmissions, rebuilding and set-up of differential, and R & R clutch assemblies. Course prepares students for the ASE A-3, Manual Drivetrain, and Axles. This course may be taken two times. Three hours lecture, four and one-half hours lab per week. 54 lecture hours, 81 lab hours.

AUTO 210 Manual Transmissions, Transaxles and Drivetrain (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course in the theory, operation, and service procedures of clutches, manual transmissions, overdrives, drivelines, and transaxle assemblies, including nonslip differentials. 54 lecture hours.

AUTO 213 Toyota Drivetrain I (4) (Cr/Nc)

Strongly recommended: Toyota dealership sponsorship and/or verification of qualifications. READ 099 if required by reading placement exam or if required by reading level.

A course in the theory, operation, and service procedures of Toyota manual transmissions and transaxles. Also covered is the diagnosis and repair of Toyota clutches,

differentials, drive axles, transfer cases, Drivetrain electrical, and related drive line components. Toyota service equipment and tools will be used. 54 lecture hours, 81 lab hours.

AUTO 214 Toyota Drivetrain II (4) (Cr/Nc)

Strongly recommended: Toyota dealer sponsor and/or verification of qualifications. READ 099 if required by reading placement exam or if required by reading level. A course in the theory, operation, and service procedures of Toyota automatic transmissions and transaxles. Also covered is the diagnosis and repair of electronically controlled transmissions. Toyota service equipment and tools will be used. 54 lecture hours, 81 lab hours.

AUTO 221 Automatic Transmissions (3) (Cr/Nc)

Strongly recommended: READ 099 if reading required by reading placement exam or if required by reading level.

The theory of operation, diagnosis, servicing, and rebuilding of automatic transmissions. Emphasis on disassembly, inspection, testing, measurements, adjusting and reassembly techniques of latest types of automatic transmissions. 54 lecture hours.

AUTO 245 Automotive Service Management (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, AUTO 100 and 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 251 Toyota Engine Rebuilding (5) (Cr/Nc)

Strongly recommended: Toyota Dealer Sponsor and/or verification of qualifications. READ 099 if required by reading placement exam or if required by reading level. This course covers diagnosis, service, repair, inspection, and assembly procedures on all types of Toyota engines. Emphasis will be placed on maintaining manufacturer's specifications following manufacturer's recommendations. This course may be taken two times. 36 lecture hours, 162 lab hours.

AUTO 253 Engine Repair and Service (5) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Course covers diagnosis, service, and repair of engines. Engine disassembly, inspection, measurements, and

assembly is covered. Preparing students for three ASE A1.E certifications MI, M2, and M3 is covered. This course may be taken two times. 36 lecture hours, 162 lab hours.

AUTO 255 Engine Machining and Blueprinting (9) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course in engine theory and rebuilding. Emphasis is placed on engine machining, assembly, and blueprinting for total performance. This course may be taken two times. 90 lecture hours, 252 lab hours.

AUTO 260 Engine Design (6)

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, turbo charging and supercharging and the use of basic and advanced engine design formulas. 108 lecture hours.

AUTO 261 Cylinder Head Rebuilding (4)

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 rebuild a cylinder head for total performance. Emphasis will be placed on cylinder, head reconditioning, head CCing, and basic flow bench operation. 54 lecture hours, 54 lab hours.

AUTO 262 Cylinder Block Rebuilding (4)

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 rebuild a cylinder block for total performance. Emphasis will be placed on cylinder, block reconditioning, including operation of align-honing, surfacing, boring, and honing machine operation. 54 lecture hours, 54 lab hours.

AUTO 270 Automotive Air Conditioning and Heating (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course covering the fundamentals of refrigeration and the procedures for diagnosis, adjustment, and repair of the automobile air conditioner. Experience with special tools and the techniques used in the servicing, testing, and repairing air conditioning components. This course may be taken two times. 54 lecture hours, 13.5 lab hours.

AUTO 281 Advanced Toyota Certified Technician Training (7)

Strongly recommended: Successful completion of evening one year certificate or equivalent experience in the automotive field. 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 of achievement program or equivalent experience in the automotive field are advised to attend. 126 lecture hours.

AUTO 285 Digital Storage Oscilloscopes (1)

Prerequisite: AUTO 112 or AUTO 120 or AUTO 128 and AUTO 129.

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)

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 and Tuning (3)

Prerequisite: AUTO 112 or AUTO 120 or AUTO 125 and AUTO 128, AUTO 129.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. consent of department.

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 Drivetrain Development (2)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Successful completion of AUTO 200 or 202 or 210 or

213 or 214 or 221 or consent from department.

The theory of operation, testing, service, and proper selection of high performance Drivetrain components as well as the modification of domestic and foreign Drivetrain components for use in high performance applications. 18 lecture hours, 54 lab hours.

AUTO 293 Advanced Steering and Suspension Geometry (2)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, successful completion of AUTO 200 or 202 or 210 or 213 or 214 or 221 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)

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)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. 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.

Cooperative Education Courses**AUTO 698A Cooperative Education (1) (Cr/Nc)**

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Automotive Technology at their place of volunteer employment or training sites. This course may be taken four times. 60 lab hours arranged per semester.

AUTO 698B Cooperative Education (2) (Cr/Nc)

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Automotive Technology at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

AUTO 698C Cooperative Education (3) (Cr/Nc)

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Automotive Technology at their place of volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

AUTO 698D Cooperative Education (4) (Cr/Nc)

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Automotive Technology at their place of volunteer employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

AUTO 699A Cooperative Education (1) (Cr/Nc)

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Automotive Technology at their place of paid employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

AUTO 699B Cooperative Education (2) (Cr/Nc)

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Automotive Technology at their place of paid employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.

AUTO 699C Cooperative Education (3) (Cr/Nc)

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Automotive Technology at their place of paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.

AUTO 699D Cooperative Education (4) (Cr/Nc)

A course designed to assist students in planning and accomplishing meaningful learning objectives related to Automotive Technology at their place of paid employment or training sites. This course may be taken four times. 300 lab hours arranged per semester.

Biology

(Biological 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)

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)

Prerequisite: MATH 130.

Strongly recommended: 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 to 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

BIOL 104 Biology: Contemporary Topics (3)

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)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, MATH 130, high school biology or chemistry.

The general biology course, lecture and laboratory, for non-majors, with emphasis upon molecular biology, cell structure and function, energy relationships, human physiological systems (including reproductive anatomy, reproductive cycles, development, and immunity), genetics, 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, 72 lab hours. CSU;UC

BIOL 105H General Biology (4)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, MATH 130, high school biology, or chemistry.

The 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. Students are expected to work and participate at an honors level which includes strong critical thinking skills, thorough analysis of biological readings, presentations, and leadership skills demonstrated through class participation/presentation and service learning in the community. 54 lecture hours, 72 lab hours. CSU;UC

BIOL 109 Biology for Educators (4)

Prerequisite: CHEM 106 or PHYS 106 and MATH 150.

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 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

BIOL 116 HIV and AIDS: Insights and Implications (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course covering the most common sexually transmitted diseases (STDs) with emphasis on the complex biological, sociological, and psychological aspects of the AIDS epidemic. Topics include history of the infections, agent(s), current medical knowledge, transmission, risk reduction, and societal responses. Common myths and misunderstandings will be identified to distinguish them from accepted scientific information. Selected topics will be presented by guest speakers. 54 lecture hours. CSU;UC

BIOL 124 Principles of Biology I (5)

Prerequisite: MATH 150.

A principles of biology course designed for biology majors and pre-med. students. Detailed study of basic structure and function of living material, with emphasis on cell and molecular biology, genetic mechanisms and their control, reproduction and development, evolution. 72 lecture hours, 72 lab hours. CSU;UC

BIOL 125 Principles of Biology II (5)

Prerequisite: MATH 150.

A principles of biology course designed for biology majors and pre-med. students. Detailed study of basic structure and function of living material, with emphasis on the diversity of living material, animal and plant form, function, reproduction and development, evolution, and ecological relationships. Four hours lecture, four hours lab per week. 72 lecture hours, 72 lab hours. CSU;UC

BIOL 145 Environmental Science (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, BIOL 104 or 105.

A lecture course exploring contemporary global environmental concerns. Basic concepts covered will include the Earth's life support systems, population dynamics, environmental pollution, food production, and natural resource utilization. Emphasis will be placed on recognizing global environmental problems, and exploring various solutions for them. 54 lecture hours. CSU;UC

BIO 200 Human Anatomy (4)

Prerequisite: BIOL 105.

Biology 200 is a lecture/laboratory course in 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 Human Physiology (4) (Cr/Nc)

Prerequisite: BIOL 200 and CHEM 103.

An advanced course in human physiology emphasizing nervous, muscle, cardiovascular, immune, respiratory, urinary, gastrointestinal, reproductive, & endocrine systems. Required of pre-nursing students. 54 hours lecture, 54 hours lab. CSU;UC

BIOL 210 Nutrition (3)

Corequisites: CHEM 103 or CHEM 110 or BIOL 124. Strongly recommended: READ 099 If required by reading placement exam or if required by reading level.

A course in nutrition concerned with its principles and their use in the selection of food in clinical situations. Designed for allied health and child development students. 54 lecture hours. CSU;UC

BIOL 220 Microbiology (5)

Prerequisites: CHEM 103 or CHEM 110 and BIOL 104 or BIOL 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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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.

BIOL 699A Cooperative Education (1) (Cr/Nc)

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 paid employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

BIOL 699B Cooperative Education (2) (Cr/Nc)

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 paid employment or training sites. This course may be taken four times. 150 lab hours arranged per semester.

BIOL 699C Cooperative Education (3) (Cr/Nc)

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 paid employment or training sites. This course may be taken four times. 225 lab hours arranged per semester.

BIOL 699D Cooperative Education (4) (Cr/Nc)

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. 300 lab hours arranged per semester.

Business

(Business Department)

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.

Certificates of Achievement**ADMINISTRATIVE OFFICE MANAGER**

REQUIRED COURSES: ACCT 100 or 101; or OFF 120; BUS 130, 132; BUS 150, 152, or BUS 160, 176; OFF 101, 201, 291, 294.

MANAGEMENT

REQUIRED COURSES: ACCT 101, BUS 130, 132, 152, 160, 170, 175.

MARKETING

REQUIRED COURSES: BUS 130, 132, 160, 170, 185, 192; OFF 101.

Business Courses

(See Also Accounting, Office Technology, Computer Applications, and Real Estate)

BUS 130 Introduction to Business (3)

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)

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)

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)

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. 54 lecture hours. CSU

BUS 150 Business English (3) (Cr/Nc)

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) (Cr/Nc)

Strongly recommended: 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) (Cr/Nc)

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) (Cr/Nc)

A study of law, with an emphasis on the law's relationship to business. Topics covered include agency, employ-

ment 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, antitrust law, professional liability, and international law. 54 lecture hours. CSU;UC

BUS 170 Small Business Management (3) (Cr/Nc)

The study of business organization emphasizing the small independently-owned business. Instructional topics include discussion of the benefits of small business, creation of a new venture, marketing, managing, financial, and administrative controls. 54 lecture hours. CSU

BUS 172 Personnel Management (3)

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) (Cr/Nc)

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) (Cr/Nc)

An overview of office management for the administrative professionals. Topics include: concepts and trends in administrative office management, centralizing/decentralizing managerial authority, and 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)

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) (Cr/Nc)

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) (Cr/Nc)

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 with taxes and their affect on investment policy. 54 lecture hours. CSU

Cooperative Education Courses

BUS 698A Cooperative Education (1) (Cr/Nc)

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 time. Sixty lab hours arranged per semester.

BUS 698B Cooperative Education (2) (Cr/Nc)

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 lab hours arranged per semester.

BUS 698C Cooperative Education (3) (Cr/Nc)

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 lab hours arranged per semester.

BUS 698D Cooperative Education (4) (Cr/Nc)

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 lab hours arranged per semester.

BUS 699A Cooperative Education (1) (Cr/Nc)

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 lab hours arranged per semester.

BUS 699B Cooperative Education (2) (Cr/Nc)

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 lab hours arranged per semester.

BUS 699C Cooperative Education (3) (Cr/Nc)

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 lab hours arranged per semester.

BUS 699D Cooperative Education (4) (Cr/Nc)

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 lab hours arranged per semester.

Chemistry

(Physical Sciences and Engineering 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, 211L, 220, 221L).

Chemistry Courses

CHEM 100 Chemistry for Daily Life (4) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course designed for the non-science major to satisfy the general education requirement for a physical science with a lab. The focus will be on contemporary issues that affect our daily lives and how chemistry can help explain those issues. Topics may include air and water quality, the ozone layer, global warming, acid rain, energy, and other topics. 54 lecture hours, 54 lab hours. CSU

CHEM 103 College Chemistry (5)

Prerequisite: MATH 130.

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) (Cr/Nc)

Prerequisite: CHEM 103 or CHEM 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)

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 course as PHYS 106. 54 lecture hours, 54 lab hours. CSU

CHEM 110 Beginning General Chemistry (5) (Cr/Nc)

Prerequisite: Completion of, or concurrent enrollment required in, MATH 150.

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 performing 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) (Cr/Nc)

Prerequisite: MATH 150. Passing score on Chemistry Placement Test or CHEM 110.

A general course in the fundamental principles of chemistry. Topics covered include stoichiometry, gas laws, nomenclature, crystal structures, periodicity, redox 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) (Cr/Nc)

Prerequisite: CHEM 111.

Chemistry 112 is a continuation of Chemistry 111 and includes topics of equilibrium, kinetics, electrochemistry, nuclear chemistry, and thermodynamics. 54 lecture hours, 126 lab hours. CSU;UC

CHEM 114 Chemical Principles (5)

Prerequisite: MATH 150. Passing score on Chemistry Placement Test or CHEM 110.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A general course in the fundamental principles of chemistry. Topics covered are those necessary for understanding chemical structure and reactions and for making chemical calculations. The course contains observational lab experiences for students with disabilities. 54 lecture hours, 126 lab hours. CSU;UC

CHEM 115 Chemical Principles (5)

Prerequisite: CHEM 114.

CHEM 115 is a continuation of CHEM 114 and includes topics of chemical equilibrium, kinetics, electrochemistry, nuclear chemistry, and an introduction to thermodynamics. The course contains observational lab experiences for students with disabilities. 54 lecture hours, 108 lab hours. CSU;UC

CHEM 210 Organic Chemistry (3)

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 211 Organic Chemistry Laboratory (1)

Prerequisite: 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)

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 221 Organic Chemistry Laboratory (1)

Corequisite: 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) (Cr/Nc)**

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. 60 lab hours arranged per semester.

CHEM 698B Cooperative Education (2) (Cr/Nc)

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 698C Cooperative Education (3) (Cr/Nc)

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. 180 lab hours arranged per semester.

CHEM 698D Cooperative Education (4) (Cr/Nc)

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. 240 lab hours arranged per semester.

CHEM 699A Cooperative Education (1) (Cr/Nc)

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 699B Cooperative Education (2) (Cr/Nc)

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. 150 lab hours arranged per semester.

CHEM 699C Cooperative Education (3) (Cr/Nc)

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.

CHEM 699D Cooperative Education (4) (Cr/Nc)

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. 300 lab hours arranged per semester.

Child Development

(Behavioral Sciences Department)

Certificates of Achievement:

CHILD DEVELOPMENT TEACHER

REQUIRED COURSES: CHLD 110 or PSY 206, CHLD 112, 114, 154, plus 9 units of electives: CHLD 120, 121, 122, 123, 124, 134, 142, 144, 150, 160, 164I
Required supervised teaching experience: OPTION I: CHILD 156 with 156L; OPTION II: CHLD 158 with 158L. 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 a public or private program.

CHILD DEVELOPMENT MASTER TEACHER - EARLY INTERVENTION

REQUIRED COURSES: CHLD 110 or PSY 206, CHLD 112, 114, 120, 142, 150, 154, 156, plus 156L or 158, 158L, 160, 164, 166, 168, 169, 194 plus 350 days of 3 hours per day. At least 100 days in a special education setting. 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.
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.

MASTER TEACHER

REQUIRED COURSES: Completion of the Child Development Teacher Certificate of Achievement and the following course work: CHLD 194 or 220 plus 6

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

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.

Skill Awards:

CHILD DEVELOPMENT ASSOCIATE TEACHER

REQUIRED COURSES: CHLD 110 or PSY 206, CHLD 112, 114, plus three units of electives
ELECTIVES: CHLD 120, 121, 122, 123, 124, 144, 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 CHLD 130

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.

Child Development Courses

CHLD 100 Introduction to Education and Teaching (3)

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 (0.5)

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, community resources. Offered for Credit/No Credit grading only. This course may be taken four times. 9 lecture hours.

CHLD 108 Model Approach to Partnership in Parenting (1.5) (Cr/Nc)

An in-service training series for foster parents. Mandated for newly licensed foster parents by Los Angeles County Department of Children and Family Services. Offered for Credit/No Credit grading only. 27 lecture hours.

CHLD 110 Early Childhood Development (3)

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-emotion 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

CHLD 111 Child Development Youth - Adolescence (3)

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 adolescences (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

CHLD 112 Principles of Early Childhood Education I

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 develop-

mentally 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.

CHILD 114 Home-Child Community Relations

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 perspective 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

CHILD 116 Introduction to Curriculum (3)

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 development 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.

CHILD 118 Effective Family Child Care Practices (2) (Cr/Nc)

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.

CHILD 120 Literacy for Children (3)

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.

CHLD 121 Art for Children (2)

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.

CHLD 122 Music and Rhythms for Children (2)

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.

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 preschool and early school-age children. Discussion 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)

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)

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)

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 influences. 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)

Prerequisite: 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 XXII licensing requirements for personnel in school age programs. 54 lecture hours.

CHLD 142 Parent Teacher Partnership (1)

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 (3)

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.

CHLD 145 Child Abuse Education (3)

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)

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 Classrooms (3)

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)

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)

Prerequisites: CHLD 110 or PSY 206 and CHLD 112 and CHLD 114 and CHLD 154 and 9 units from the following: CHLD 120, 121, 122, 123, 124, 134, 142,

144, 150, 160, 164.

Corequisite: CHLD 156L.

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. 36 lecture hours.

CHLD 156L Practicum A Lab (1)

Corequisite: CHLD 156.

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 158 Practicum B in Early Childhood Education (2)

Prerequisite: Twelve units of CHLD including CHLD 112 and six units from the following: CHLD 120, 121, 122, 123, 124, 125, 126, 127, or 128.

Corequisite: CHLD 158L.

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. 36 lecture hours. CSU

CHLD 158L Practicum B Lab (1)

Corequisite: CHLD 158.

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 160 Perceptual Motor and Movement Activities (2)

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 aide 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)

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)

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 5. 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 Developmental Risk: Infants and Toddlers (2)

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 Challenging and Disruptive Behaviors (1)

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)

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)

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)

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)

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)

Prerequisites: CHLD 110 or CHLD 111 or PSY 206 and CHLD 112 and CHLD 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)

Prerequisite: Eighteen units of early childhood education, CHLD 190.

Strongly 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)

Prerequisite: CHLD 190: Administration of Early Childhood Education Programs I.

This course addresses those personnel issues most often encountered by administrators of Early Childhood Education program 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)

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.

Cooperative Education Courses

CHLD 698A Cooperative Education (1) (Cr/Nc)

Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. 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 development at their place of volunteer employment or training sites. This course may be taken four times. 60 lab hours arranged per semester.

CHLD 699A Cooperative Education (1) (Cr/Nc)

Enrollment in a minimum of seven units of credit including cooperative education during the regular semester. 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 development at their place of paid employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

College Preparation

(Language Arts Department)

College Preparation Courses

COLL 033 Sentence Skills (3)

This course focuses intensively on the development of sentences. Practice is provided in skillful writing of clear sentences as forms of written expression. 54 hours lecture. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

Communications

(Language Arts Department)

The communications program includes instruction 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; instruction in desktop publishing; and film studies. The curriculum features both theory and application through traditional and online instructional delivery systems.

Communications Courses

(See Also Speech)

COMM 90 Introduction to Distance Education (1) (Cr/Nc)

Instruction in the skills needed for successful distance education study. Introduction to practical skills, including sending and receiving email, using attachments and using search engines on the web. Study skills, time management and communication skills will also be covered as they relate to student success. Proper use of citations and web based research skills will be developed. 18 lecture hours.

COMM 100 Mass Media and Society (3) (Cr/Nc)

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, psychological, and sociological terms. Focuses on helping the media consumer understand the power and significance of mass communications: books, newspapers, magazines, radio, television, motion pictures, the Internet, public relations, and advertising. Discusses the rights and responsibilities and inter-relatedness of media in a diverse global society. Required for all communications and journalism majors; also a general interest course. 54 lecture hours. CSU;UC

COMM 101 Reporting and Writing News (3) (Cr/Nc)

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, objectivity, fairness, and balance. Practice in interviewing techniques, following rules of professional style, and writing basic news story structures. Discussion of issues involving press rights and responsibilities, cultural sensitivity, taste, libel, and ethics. Required of all communication and journalism majors. 54 lecture hours, 18 lab hours. CSU

COMM 103 Freelance Journalism (1) (Cr/Nc)

Strongly recommended: COMM 101.

This course is designed for students who wish to contribute to the campus newspaper and magazine but are unable to enroll in the regular staff class. Students who are interested in advertising, writing, photography, illustration, cartooning, design, computer graphics, page layout and paste-up may participate to a limited extent through this class. This class may be repeated four times. 54 lab hours. CSU

COMM 104 Public Relations (3) (Cr/Nc)

A survey of public relations history, theories, and practices with emphasis on applications to business, public agencies, and institutions. A practical approach to using the media, creating publicity releases, organizing and executing campaigns. Explores job opportunities of particular interest to communications majors. 54 lecture hours. CSU

COMM 136 Cultural History of American Films (3)

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 from its origins to the present, students will study film language, the social composition of audiences, the economics of the film industry, major themes and genres that have appeared in American films, and the relationship between politics and American motion pictures. Meets IGETC fine arts requirement. 54 lecture hours. CSU;UC

COMM 200 Visual Communications (3) (Cr/Nc)

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 entertainment media and their impact on society. 54 lecture hours. CSU;UC

COMM 202 Writing Broadcast News (3) (Cr/Nc)

Prerequisite: COMM 101.

Intensive journalistic writing and reporting for radio and television. Newscast planning, 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 broadcast journalists, including developing news judgment, discussing ethical considerations and examining legal issues. 54 lecture hours, 18 lab hours. CSU

COMM 230 Desktop Publishing (3) (Cr/Nc)

Strongly recommended: COMM 101.

Computer instruction and practice. Analysis of story structures and effectiveness of written material, rewriting, correction of errors, proofreading, headline writing, news and picture evaluation, and page design. Hands-on experience working on student publications with the college newspaper and magazine staffs. This course may be taken four times. 36 lecture hours, 54 lab hours. CSU

COMM 240 Newspaper Production Staff (3) (Cr/Nc)

Strongly recommended: COMM 101.

Staff members gather, evaluate, write, photograph, and edit the news for publication 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) (Cr/Nc)

Strongly recommended: COMM 101.

A study of the major aspects of editorial responsibilities. Taught in a laboratory setting, the course provides practical instruction and experience for campus editors in writing, editing, and evaluating each issue of the campus newspaper and magazine, as well as formulating editorial policy. This course may be taken four times. 18 lecture hours, 54 lab hours. CSU

COMM 280 Magazine Production Staff (3) (Cr/Nc)

Strongly recommended: COMM 101.

A lecture/laboratory course in which the organization, formula, format, and production methods of magazines are studied and applied in the development of a college magazine. Activities include writing, editing, photography, art, layout, and production. This course may be taken four times. 36 lecture hours, 54 lab hours. CSU

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.

Certificates of Achievement:

COSMETOLOGY

REQUIRED COURSES: COS 140, 152, 153, 154, 155, 156, 157, 158, 159, 163, and 164
EMPLOYMENT OPPORTUNITY:

Make-up and Hair Stylist, Facialist, Nail Technician

ESTHETICIAN

REQUIRED COURSES: COS 165, 166
EMPLOYMENT OPPORTUNITY:

Establishing an Esthetician practice as an

employee in a full service salon or as a separate and independent practice.

Cosmetology Courses

COS 110 Body Massage Therapy and Reflexology (18)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The history and philosophy of massage therapy. This course will cover Swedish massage, shiatsu massage, acupressure, reflexology, nutrition, psychology of health, business ethics, and relevant laws. This course may be taken two times. 234 lecture hours, 288 lab hours.

COS 140 Introduction to Cosmetology (12)

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 Reformation of the Hair (4.5)

Prerequisite: COS 140.

A continuation of the science and theory of professional haircutting and permanent waving techniques and procedures introduced in Cosmetology 140. Lectures, demonstrations, and practical experience in the following areas: permanent waving, chemical hair straightening, chemistry of products, and the use of scissors, razors, and clippers. 45 lecture hours, 117 lab hours.

COS 153 Advanced Chemical Reformation of the Hair (4.5)

Prerequisite: COS 152.

A continuation of the science and theory of professional haircutting and permanent waving techniques and procedures introduced in Cosmetology 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)

Prerequisite: COS 140.

A continuation of the science and theory of professional haircoloring techniques and procedures introduced in Cosmetology 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)

Prerequisite: COS 154.

A continuation of the science, theory, professional haircoloring 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)

Prerequisite: COS 140.

A continuation of the science and theory of professional manicuring techniques and procedures introduced in Cosmetology 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)

Prerequisite: COS 156.

A continuation of the science and theory of professional manicuring techniques, and procedures introduced in Cosmetology 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)

Prerequisite: COS 140.

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)

Prerequisite: COS 158.

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 160 Manicurist (12)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course consists of lectures, demonstrations, and lab experiences in manicuring, pedicuring, artificial nails and nail art; current techniques in massage and hand, foot, and nail treatments; anatomy, physiology, chemistry, bacteriology, sterilization, professional ethics, and salon management. 108 lecture hours, 360 lab hours.

COS 163 Beginning Facial Treatment, Skin Care, and Make-up (4.5)

Prerequisite: COS 140.

A continuation of the science and theory of professional skin care, make-up techniques, and procedures introduced in Cosmetology 140. Lectures, demonstrations, and practical 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 Treatments, Skin Care, and Make-up (4.5)

Prerequisite: COS 163.

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)

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. 90 lecture hours, 270 lab hours.

COS 166 Esthetician II (10)

Prerequisite: COS 165.

This course completes the two-part esthetician program. It includes advanced and customized facial treatments, make-up artistry and color coordination, and product

knowledge. There is a materials fee associated with the class. 90 lecture hours, 270 lab hours.

COS 167 Cosmetology Licensure Preparation (2)

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. 36 lecture hours, 36 lab hours. This course may be taken two times.

COS 170 Advanced Contemporary Techniques of Ethnic Hair Care (3)

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, haircutting, chemical reconstruction, and haircoloring. This course may be taken two times. 54 lecture hours, 18 lab hours.

COS 171 Salon Readiness (2)

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)

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, treatment, massage, electro therapy, cosmetic chemistry, advanced makeup, body waxing techniques and salon management. Credit/No Credit grading only. 54 lecture hours, 18 lab hours.

COS 177 Advanced Professional Skin Care - Phase II (3)

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 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, currents and cosmeceuticals. 54 lecture hours, 18 lab hours.

COS 180 Advanced Haircutting (1)

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 Hairstyling Workshop (2)

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)

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.

COS 281 Cosmetology Teacher Training Planning and Preparation (8)

Prerequisite: COS 280.

This course is designed for licensed cosmetologists who want to become cosmetology instructors. It will continue principles of learning, effective teaching methods, techniques and organizational skills. It will introduce lesson presentation, classroom management and use of technology for curriculum delivery. Emphasis is placed on classroom delivery and evaluation of student performance. This course may be taken two times. 72 lecture hours, 72 lab hours.

Counseling

(Counseling Department)

Career Education Courses

Career Education includes courses 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.

COUN 011 Basic Orientation for International Students (0.5)

A course introducing international students with limited English skills to the facilities, programs and services available at the college. The emphasis will be on information which will familiarize students with college environment. 9 lecture hours.

COUN 142 Careers In Teaching (1) (Cr/Nc)

Strongly recommended: Reading 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) (Cr/Nc)

Strongly recommended: Reading 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) (Cr/Nc)

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) (Cr/Nc)

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. Offered for Credit/No Credit grading only. 18 lecture hours.

COUN 154 Peer Counseling and Advising (1)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course is designed to provide on-going training for Citrus College peer advisors. Primary concepts are covered in 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 Credit/No Credit grading only. This course may be taken four times. 18 lecture hours.

COUN 155 Occupational Exploration (1)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course designed to facilitate occupational choice and preparation for entry level employment. Students will be assisted in personal interest/skill discovery, gain information regarding occupational clusters and short-term occupational programs within each cluster, participate in experiential occupational activities, and learn about the world of work. Occupational research methods will be introduced, empowering students with the decision-making skills necessary to make a satisfying career choice. Offered for Credit/No Credit grading only. 18 lecture hours.

COUN 156 College Planning Today for Tomorrow (1) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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

COUN 202 Job Seeking Skills for the Disabled (1)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course, designed for disabled persons, includes an examination of the job search process with an emphasis on their unique needs. Topics include networking, the value of volunteering, dealing with rejection, protective employment laws, community resources, job interviews, and resumes. Two week course. 18 lecture hours.

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)

CSIS 105 Introduction to Windows and Personal Computers (2) (Cr/Nc)

Strongly recommended: READ 099 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. This course may be taken two times. 36 lecture hours, 18 lab hours. CSU

CSIS 107 Fundamentals of Information Technology (4) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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, 18 lab hours. CSU;UC

CSIS 109 Network and Computer Safety (4) (Cr/Nc)

Strongly recommended: READ 099 required by reading placement exam or if required by reading level.

Covers basics of general security concepts, network security, communication security, 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 is the same as ENGR 109. 54 lecture hours, 54 lab hours.

CSIS 111 Introduction to Programming Concepts and Design (4) (Cr/Nc)

Prerequisite: CSIS 107.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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, 18 lab hours. CSU;UC

CSIS 119 Introduction to Web Programming (3) (Cr/Nc)

Prerequisite: CSIS 105 or CSIS 107.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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, 18 lab hours. CSU

CSIS 130 Microcomputer Applications I (4) (Cr/Nc)

Recommended: CSIS 105 or 107.

Strongly recommended: 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. Prepares students to take the Microsoft Office User Specialist certification exams. This course may be taken two times. 72 lecture hours, 18 lab hours. CSU;UC

CSIS 140 Java Programming with Game Applications (4) (Cr/Nc)

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. Some of the applications involve creating 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, 54 lab hours. CSU;UC

CSIS 141 Java Script (4)

Prerequisite: CSIS 110 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 three times. 72 lecture hours, 18 lab hours. CSU

CSIS 150 Web Development with Dreamweaver I (2) (Cr/Nc)

Strongly recommended: 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 Dreamweaver. Topics include: the Dreamweaver interface, the object pane, HTML integration, images, and tables. This course may be taken two times. 36 lecture hours, 18 lab hours.

CSIS 151 Web Development with Dreamweaver II (2) (Cr/Nc)

Strongly recommended: CSIS 150 or consent of instructor.

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, 18 lab hours.

CSIS 154 Web Development with Fireworks (2) (Cr/Nc)

Prerequisites: 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, 18 lab hours.

CSIS 156 Web Development with Flash (2) (Cr/Nc)

Prerequisites: 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 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, 18 lab hours.

CSIS 162 Electronic Spreadsheets Using Microsoft Excel (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course provides 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. This course may be taken four times. 54 lecture hours, 18 lab hours.

CSIS 166 Introduction of PowerPoint (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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. This course may be taken two times. 36 lecture hours, 18 lab hours.

CSIS 167 Introduction to MS Publisher (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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. This course may be taken two times. 36 lecture hours, 18 lab hours.

CSIS 168 Using Web Page Software (4) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introduction to using Web-authoring software for the World Wide Web (WWW) to build and preview text,

images, animation, tables, and links on a Web page. Using software like MS FrontPage, Macromedia Dreamweaver, or other Web-authoring software. Use of database management software to design and create a simple database that can be use on the WWW. Use of client and server-side Web development interfaces to business databases. Create simple or sophisticated Business/Personal Web Pages. This course may be taken two times. 72 lecture hours, 18 lab hours.

CSIS 170 Visual Basic Programming (4) (Cr/Nc)

Prerequisite: CSIS 111.

Introduces the Visual Basic programming language as a tool for developing user-friendly applications in the Windows environment. Topics include event driven programming, data types, basic control structure, and arrays. Students will write and debug several programs for the PC as partial fulfillment of the course requirements. 54 lecture hours, 54 lab hours. CSU

CSIS 175 Introduction to Access (2) (Cr/Nc)

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. This course may be taken four times. 36 lecture hours, 18 lab hours.

CSIS 190 Introduction to Flash Game Programming (4)

Placement based on successful completion of CSIS 111 and MATH 029 or instructor approval.

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 three times. 72 lecture hours. CSU

CSIS 199 Data Processing Project I (2)

Prerequisite: Completion of one programming course or equivalent experience.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Designed for students who desire in-depth experiences in designing and implementing a data processing project. Will meet part of the requirements for a data processing certificate of achievement. This course may be taken two times. 18 lecture hours, 54 lab hours. CSU

CSIS 225 Object Oriented Programming with C++ (4)

Prerequisite: 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. 54 lecture hours, 54 lab hours. CSU;UC

CSIS 230 Microcomputer Applications II (4) (Cr/Nc)

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

CSIS 240 Advanced Java Programming (4) (Cr/Nc)

Prerequisite: CSIS 140.

A second course in Java programming language that allows students to create some advanced applications. The materials to be covered will include object oriented programming, strings, files, graphics, graphical user interface applications, and Java networking applications. This course may be taken three times. 72 lecture hours, 18 lab hours. CSU;UC

Dance

(Fine and Performing Arts Department)

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.

Certificates of Achievement:

COMMERICAL DANCE CERTIFICATE:

REQUIRED COURSES: DANC 102, 130, 172, 259, 260, 262, 269, 272, 289, plus 34 units of electives
ELECTIVES: DANC 159, 160, 161, 162, 164, 165, 171, 259, 260, 261, 262, 263, 265, 266, 269, 270, 272, 280, 282, 288, 289; MUS 214. The above elective classes may be taken multiple times.

Dance Courses

(See Also Music)

DANC 102 History of Dance (3) (Cr/Nc)

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) (Cr/Nc)

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. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU;UC

DANC 130 Alignment and Correctives (2)

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-kinesis. This course may be taken four times. 36 lecture hours, 18 lab hours. CSU

DANC 159 Beginning Tap (1) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

A course in choreography designed for students wishing an in-depth performance experience. This course may be taken four times. 18 lecture hours, 54 lab hours.*

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.

Advanced:

Expansion of repertoire with student contribution in concept and execution of choreography. CSU;UC

DANC 164 Commercial Dance Techniques (2) (Cr/Nc)

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 (1)

This course provides beginning and intermediate students with ballet, modern, jazz, hip hop, tap, video for 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) (Cr/Nc)

Prerequisites: DANC 160, 161 or 163.

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 Forms (2) (Cr/Nc)

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) (Cr/Nc)

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 201 Appreciation and Analysis of Dance (3) (Cr/Nc)

Lectures, readings, and discussion to understand and appreciate the value of dance as an art form and the various approaches to choreography. Attendance of two dance performances is required. 54 lecture hours. CSU;UC

DANC 259 Intermediate Tap I (1) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

Corequisites: 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) (Cr/Nc)

Corequisites: 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, 108 lab hours. CSU;UC

DANC 265 Musical Staging: Rehearsal and Performance (2) (Cr/Nc)

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) (Cr/Nc)

Corequisite: DANC 264.

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 269 Intermediate Tap II (1) (Cr/Nc)

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 hours lecture, 18 hours lab. CSU;UC

DANC 270 Intermediate Jazz Dance II (1) (Cr/Nc)

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, 36 lab hours. CSU;UC

DANC 271 Intermediate Modern Dance II (1) (Cr/Nc)

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) (Cr/Nc)

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 (1) (Cr/Nc)

Corequisites: DANC 171 or 172 and DANC 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) (Cr/Nc)

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 (1) (Cr/Nc)

Prerequisites: DANC 171 and 172.

Corequisites: 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) (Cr/Nc)

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 282 Choreography - Repertoire (2) (Cr/Nc)

Prerequisites: DANC 171 and 172.

Corequisites: DANC 259, 260, 261 and/or 262.

A course in dance performance training specifically for performance preparation. Repertoire will consist of existing works, reconstruction, and new works in jazz, modern, musical theatre, tap, and ballet styles. This course may be taken two times. 18 lecture hours, 72 lab hours. CSU;UC

DANC 286 Choreography - Musical and Dramatic (2) (Cr/Nc)

Prerequisites: DANC 280 and 282.

Corequisites: DANC 269, 270, 271 and/or DANC 272, 275.

A course in the composition of dance styles for musical and dramatic form. Course will include concepts on working with a score, story motivation, and a character movement and development. This course may be taken two times. 18 lecture hours, 72 lab hours. CSU;UC

DANC 287 Special Projects in Dance (2) (Cr/Nc)

Prerequisites: DANC 280 and 282.

Corequisites: DANC 269, 270 and DANC 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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: Two consecutive semesters of DANC 190. Corequisites: DANC 269, 270 and DANC 271 and/or 272.

Performance ensemble designed to provide intermediate to advanced level dance student's 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.

Certificates of Achievement:**DENTAL ASSISTING**

REQUIRED COURSES: DENT 100, 101, 102, 121, 122, 123, 124, 125, 201, 202, 203

EMPLOYMENT OPPORTUNITY:

Dental Assistant, Registered Dental Assistant

Dental Assisting Courses**DENT 100 Dental Assisting Basics (2.5)**

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 (2.5)

Prerequisite: DENT 100 or Corequisite: DENT 100.

This lecture/lab course provides preclinical instruction in four-handed dentistry techniques and prepares the student to assist a dentist at chairside. Content includes: the use and care of dental equipment, oral evacuation, instrument transfer, tray setups, infection control, preparation of anesthetic syringe, rubber dam, tofflemire matrix, cavity preparation, and rotary and hand instruments. Emphasis is placed on the responsibilities of a chairside dental assistant during general restorative procedures. 45 lecture hours, 72 lab hours.

DENT 102 Dental Materials (2.5)

Prerequisite: DENT 100 or Corequisite: 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, 54 lab hours.

DENT 110 Introduction to Dental Assisting (1)

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)

Prerequisite: DENT 100 or Corequisite: 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)

Prerequisite: DENT 100 or Corequisite: 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 univer-

sal precautions. 27 lecture hours.

DENT 123 Preventive Dental Health (2)

Prerequisite: DENT 100 or Corequisite: DENT 100.

Fundamental skills involved in assessing the dental patient's health, the affect on dental treatment and the adjustments to dental treatment needed to protect the physical welfare of the patient. This class provides instruction on health history, vital signs, recognition and management of medical emergencies, nutrition, and pharmacology. 36 lecture hours.

DENT 124 Dental Specialties (2)

Prerequisite: DENT 100 or Corequisite: 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) (Cr/Nc)

Prerequisites: 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, 18 lab hours.

DENT 201 Dental Radiology (1.5)

Prerequisites: DENT 100, 101 and 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, 27 lab hours.

DENT 202 Registered Dental Assistant (5)

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 lecture

hours, 99 lab hours.

DENT 203 Dental Practical Experience (6)

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 chairside assistant in a dental school setting or private dental office. Offered for Credit/No Credit grading only. This course may be taken two times. 324 lab hours.

Cooperative Education Courses

DENT 698A Cooperative Education (1) (Cr/Nc)

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. 60 lab hours arranged per semester. This course may be taken four times.

DENT 698B Cooperative Education (2) (Cr/Nc)

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. 120 lab hours arranged per semester. This course may be taken four times.

DENT 698C Cooperative Education (3) (Cr/Nc)

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. 180 lab hours arranged per semester. This course may be taken four times.

DENT 698D Cooperative Education (4) (Cr/Nc)

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. 240 lab hours arranged per semester. This course may be taken four times.

DENT 699A Cooperative Education (1) (Cr/Nc)

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. 75 lab hours arranged per semester. This course may be taken four times.

DENT 699B Cooperative Education (2) (Cr/Nc)

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. 150 lab hours arranged per semester. This course may be taken four times.

DENT 699C Cooperative Education (3) (Cr/Nc)

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. 225 lab hours arranged per semester. This course may be taken four times.

DENT 699D Cooperative Education (4) (Cr/Nc)

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. 300 lab hours arranged per semester. This course may be taken four times.

Disabled Student Programs & Services

(Counseling and Advisement Department)

Specialized instructional support opportunities designed for students with disabilities. The student will become empowered through the use of individualized learning materials, technology, and compensatory strategies intended to lessen the impact of the disability for achieving success in college.

Disabled Student Courses

DSPS 075 Individualized Assessment of Learning Strengths and Weaknesses (0.5) (Cr/Nc)

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 Credit/No Credit grading only. Hours are arranged. NOTE: THE UNITS EARNED FOR THE COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION

DSPS 090 Empowerment for Students with Disabilities (2) (Cr/Nc)

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. 36 lecture hours.

DSPS 103 Technical Assistance Lab: Adaptive Computer Technology (1) (Cr/Nc)

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. This course may be taken three times. 54 lab hours.

Drafting Technology

(Physical Sciences and Engineering Department)

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

Certificates of Achievement:

COMPUTER GENERATED IMAGERY

REQUIRED COURSES: DRAF 102, 109, 111, 190; ART 120, 121, and 215

ADVANCED DRAFTING TECHNOLOGY-CAD

REQUIRED COURSES:

Drafting Technology - CAD
Certificate of Achievement plus. ART 188; DRAF 190, 198; ENGR 130; MATH 130; PHYS 110

ARCHITECTURAL DESIGN

REQUIRED COURSES: ART 111, 120, 121, 188; DRAF 158, 161, 190

ARCHITECTURAL DRAFTING-CAD

REQUIRED COURSES: ART 153; DRAF 109 or ENGR 125; DRAF 150, 151, 152, 154,160
EMPLOYMENT OPPORTUNITY:

Entry level Architectural Drafter

DRAFTING TECHNOLOGY-CAD

REQUIRED COURSES: ART 111, 153; DRAF 101 or 112; DRAF 109 or ENGR 125; DRAF 102, 103, 111

Drafting – Architectural

DRAF 149 Introduction to Architectural Computer Generated Imagery and Design Technology (1)

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 architectural Computer Generated Imagery (CGI) and design technology. Students will develop career goals and knowledge required to understand various design professions. 18 lecture hours.

DRAF 150 Introduction to Architecture (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A nondrafting 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 Residential Floor Plans and Functional Design (3) (Cr/Nc)

Prerequisites: DRAF 150 or 101 or high school architectural drawing and one year of high school mechanical drawing.

Introduction to the drafting skills of architectural technology. Residential floor plans and foundations, design problems, lettering, line work, drawing to scale, symbols, notes, and dimensions. 36 lecture hours, 72 lab hours. CSU

DRAF 152 Basic Residential Structure Design and Drafting (3) (Cr/Nc)

Prerequisites: DRAF 150 and 151 or Corequisite: DRAF 151.

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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 (2) (Cr/Nc)

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 161 Residential CAD (2) (Cr/Nc)

Prerequisite: DRAF 160.

An advanced architectural course using CAD for the design and development of residential floor plans and foundations, site plans, electrical plans, plumbing, climate control, sections, details, elevations and notes. 36 lecture hours, 36 lab hours. CSU

Drafting – Computer Generated Imagery (CGI)

DRAF 189 History and Theory of Design (3)

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) (Cr/Nc)

An advanced practical projects course using Alias/Wave front Maya, 3D Studio Max, and other current industry standard software designed to complete the student's preparation for employment. This course may be taken four times. 36 lecture hours, 54 lab hours. CSU

DRAF 290 Learning Maya Introduction (3)

Introduction to modeling, animate and render using Maya with a focus on establishing a working knowledge of Maya's animation tools and techniques, this course builds a solid foundation for developing character animation and special effects sequences. The course uses the two different sections of the Learning Maya tutorial book to provide the student with an overview of the Maya environment and how it can be applied to their work. 36 lecture hours, 54 lab hours.

DRAF 291 Learning Maya Transitions (3)

Prerequisites: DRAF 190 or 290.

Teaches how to model, animate and render using Maya Transitions with a focus on establishing a working knowledge of Maya's animation tools and techniques, this course builds a solid foundation for developing character animation and special effects sequences. The course uses the two different sections of the Learning Maya Transitions tutorial book to provide the student with an overview of the Maya environment and how it can be applied to their work. 36 lecture hours, 54 lab hours.

DRAF 292 Character Animation in Maya 4.5 (3)

Prerequisite: DRAF 290.

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 293 Maya 4.5 Dynamics (3)

Prerequisite: DRAF 290:

This course teaches the student how to work with Maya's Dynamics system and related tools. 36 lecture hours, 54 lab hours.

DRAF 294 Maya Rendering 4.5 (3)

Prerequisite: DRAF 290.

Teaches the final stage in the 3D Computer Graphics production process by examining the techniques and tools that will allow students to become proficient and effective using the Maya renderer. 36 lecture hours, 54 lab hours.

DRAF 295 Introduction to Maya Embedded Language (MEL) (3)

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 296 Maya/Accelerator (3)

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/Waterfront's Certified Training Offerings. 36 lecture hours, 54 lab hours.

DRAF 297 Maya Cloth (3)

Prerequisites: DRAF 290 and 292.

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.

Drafting – Mechanical**DRAF 101 Mechanical Drawing (3)**

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A basic course for preengineering, prearchitecture, and others who have had no previous mechanical drawing. 36 lecture hours, 72 lab hours. CSU

DRAF 102 Technical Illustration (2.5)

Prerequisites: DRAF 101 and 109.

A basic course in pictorial drawing including freehand, mechanical, and CAD constructions in isometric and perspective drawing. 36 lecture hours, 36 lab hours. CSU

DRAF 103 Advanced Mechanical Drawing (3)

Prerequisites: DRAF 101 or 1 year high school mechanical drafting.

Advanced techniques and the solution of drafting problems through a variety of practical applications rather than the theories 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)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Drafting industry experience.

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 three times. 18 lecture hours, 54 lab hours.

DRAF 110 Advanced Lighting Design and Technology (2)

This course will allow the student to analyze, complete, and evaluate projects that develop skills in the lighting design process. The preparation of design documents for advanced lighting design problems of interior and exterior spaces will be required. Energy and building codes, as well as economic factors, will be an integral part of the design process. Field trips will be included. 108 lab hours.

DRAF 111 Computer Aided Design and Drafting Mechanical (CADD) (2)

Prerequisites: DRAF 109 or ENGR 125.

Presents advanced automated drafting techniques used in the production of mechanical drawings. This study emphasizes the creation and use of symbol libraries and custom tablet menus. This course may be taken three times. 18 lecture hours, 54 lab hours.

DRAF 112 Introduction to Computer Aided Design (CAD) and Mechanical Drawing (3)

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 198 Special Problems in Drafting (1)

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.

Cooperative Education Courses

DRAF 698A Cooperative Education (1) (Cr/Nc)

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 at their place of volunteer employment or training sites. This course may be taken four times. 60 lab hours arranged per semester.

DRAF 698B Cooperative Education (2) (Cr/Nc)

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 at their place of volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

DRAF 698C Cooperative Education (3) (Cr/Nc)

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 at their place of volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

DRAF 698D Cooperative Education (4) (Cr/Nc)

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 at their place of volunteer employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

DRAF 699A Cooperative Education (1) (Cr/Nc)

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 at their place of paid employment or training sites. This course may be taken four times. 75 lab hours arranged per semester.

DRAF 699B Cooperative Education (2) (Cr/Nc)

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 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) (Cr/Nc)

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 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) (Cr/Nc)

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 at their place of paid employment or training sites. This course may be taken four times. 300 lab hours arranged per semester.

Earth Science

(Physical Sciences and Engineering 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 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 (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

ESCI 180 Introduction to Geographic Information Systems (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introduction GIS course that will teach the theory

and use of GIS software in a number of fields including business, resource management, Earth Sciences, and urban planning. Recommended for anyone using spatial data in their profession. 36 lecture hours, 90 lab hours. CSU;UC

Geology Courses

ESCI 111 Earth and Space Science for Educators (4)

Prerequisites: CHEM 106 and/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 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

ESCI 120 Physical Geology (4)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An elementary study of the Earth, particularly of its materials and structure, and of the physical and chemical processes at work upon and within it. 54 lecture hours, 54 lab hours. CSU;UC

ESCI 121 Historical Geology (4)

Prerequisite: ESCI 120.

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

ESCI 122 Geology: Earth History (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introduction to the study of the Earth's geological history, from the origin of our planet to the present. Topics include the history and development of life, processes of fossilization, the origin of coal and petroleum, and plate tectonics with emphasis on North America. 54 lecture hours. CSU;UC

ESCI 124 Environmental Geology (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Application of geologic principles to selected environmental problems. Topics include earthquakes, volcanism, mass movements, climate change, floods, coastal processes, mass extinctions, meteorite impacts, and population growth. 54 lecture hours. CSU;UC

ESCI 125 California Geology (4)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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 locals in California. A transportation/activities fee will be charged. This course may be taken two times. 54 lecture hours, 54 lab hours. CSU;UC

Geology Field Courses**ESCI 140 The Geology of Death Valley National Park (2) (Cr/Nc)**

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

ESCI 141 The Geology of Yosemite National Park (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

ESCI 142 The Geology of Channel Islands National Park (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

ESCI 143 The Geology of Joshua Tree National Park (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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, desert processes, and tectonic features. Includes a weekend trip to the region. A transportation/activities fee may be charged. 36 lecture hours. CSU

ESCI 145 The Geology of Sequoia National Park (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

ESCI 146 The Geology of Kings Canyon National Park (2) (Cr/Nc)

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

Oceanography Courses

ESCI 130 Physical Oceanography (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

Cooperative Education Courses

ESCI 698A Cooperative Education (1) (Cr/Nc)

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 volunteer employment or training sites. 60 lab hours arranged per semester. This course may be taken four times.

ESCI 698B Cooperative Education (2) (Cr/Nc)

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 volunteer employment or training sites. 120 lab hours arranged per semester. This course may be taken four times.

ESCI 698C Cooperative Education (3) (Cr/Nc)

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 volunteer employment or training site. 180 lab hours arranged per semester. This course may be taken four times.

ESCI 698D Cooperative Education (4) (Cr/Nc)

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 volunteer employment or training sites. 240 lab hours arranged per semester. This course may be taken four times.

ESCI 699A Cooperative Education (1) (Cr/Nc)

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. 75 lab hours arranged per semester. This course may be taken four times.

ESCI 699B Cooperative Education (2) (Cr/Nc)

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. 150 lab hours arranged per semester. This course may be taken four times.

ESCI 699C Cooperative Education (3) (Cr/Nc)

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. 225 lab hours arranged per week. This course may be taken four times.

ESCI 699D Cooperative Education (4) (Cr/Nc)

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. 300 lab hours arranged per week. This course may be taken four times.

Economics

(Social Sciences Department)

Economics Courses

ECON 100 Survey of Economics (3)

Strongly recommended: READ 099 if required by reading placement exam or by reading level.

This is a survey of economics course. It is designed as a beginning economics class. It involves laying the basic principles of economic theory on both the macro and micro levels and showing how the principles can be applied to analyze current economic issues such as national health care, outsourcing, gas prices, the health

of the economy, immigration. 54 lecture hours. CSU;UC

ECON 101 Principles of Economics (3) Cr/Nc)

Strongly recommended: MATH 130, Also READ 099 if required by reading placement exam or if required by reading level.

An introductory course that focuses on aggregate economic analysis. Topics include 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. 54 lecture hours. CSU;UC

ECON 101H Principles of Economics / Honors (3) (Cr/Nc)

Strongly recommended: MATH 130, Also READ 099 if required by reading placement exam or if required by reading level.

A macro economics 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

ECON 102 Principles of Economics (3) (Cr/Nc)

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

Electronics

(Physical Sciences and Engineering Department)

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 of Achievement 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.

Certificates:

ELECTRONICS TECHNICIAN

REQUIRED COURSES: ELEC 101, 102, 201, 202; ENGR 104, 107

EMPLOYMENT OPPORTUNITY:

Aerospace Technician, Research and Development Technician, Test Equipment Repair and Calibration Technician

Electronics Courses

ELEC 100 Introduction to Technology (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introductory course in technology covering computer technology, CADD, electronic technology, and recording arts technology. This course is ideally suited for people who wish to explore the variety of classes and job opportunities available in the technology field. This course may be taken two times. 36 lecture hours, 54 lab hours. CSU

ELEC 101 Electronics Fundamentals (4) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, MATH level 2.

This course covers the fundamentals of D.C. circuits. The following topics are emphasized: Ohm's Law, power sources, capacitance, Kirchhoff's Laws, and Norton's and Thevenin's theorems. Arithmetic and algebraic analysis of D.C. circuits using scientific calculators. ELEC 201 may be taken concurrently. 54 lecture hours, 54 lab hours. CSU

ELEC 102 Electronics Communications (4) (Cr/Nc)

Prerequisite: ELEC 101.

Strongly recommended: Eligible for MATH 130.

This course covers the fundamentals of A.C. circuits. The following topics are stressed: magnetism, reactance, impedance, resonance, transformers, filters, and polyphase systems. 54 lecture hours, 54 lab hours. CSU;UC

ELEC 120 Introduction to Computer Technology (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Introductory course in computer technology. This course is designed to expose the student to the basic principles of computers and networking. Topics covered: basic parts of computers, differences between Macs and PCs, file compression, streaming audio and video, zip drives, basic maintenance of computers, and basic network theories. Recommended for the recording arts technology student. This course may be taken two times. 36 lecture hours, 54 lab hours.

ELEC 201 Digital Electronics (4) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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. 60 lab hours arranged per semester. This course may be taken four times.

ELEC 698B Cooperative Education (2) (Cr/Nc)

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. 120 lab hours arranged per semester. This course may be taken four times.

ELEC 698C Cooperative Education (3) (Cr/Nc)

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. 180 lab hours arranged per semester. This course may be taken four times.

ELEC 698D Cooperative Education (4) (Cr/Nc)

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. 240 lab hours arranged per semester. This course may be taken four times.

ELEC 699A Cooperative Education (1) (Cr/Nc)

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. 75 lab hours arranged per semester. This course may be taken four times.

ELEC 699B Cooperative Education (2) (Cr/Nc)

Enrollment in a minimum of seven units of credit including cooperative education during the regular semester.

130 Emergency Management

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. 150 lab hours arranged per semester. This course may be taken four times.

ELEC 699C Cooperative Education (3) (Cr/Nc)

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. 225 lab hours arranged per semester. This course may be taken four times.

ELEC 699D Cooperative Education (4) (Cr/Nc)

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. 300 lab hours arranged per semester. This course may be taken four times.

Emergency Management (Health Sciences Department)

Emergency Management Courses

EMER 162 Principles of Emergency Management (3)

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)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course provides an 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)

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 (CSTI) certification examination. 54 lecture hours.

EMER 166 Emergency Planning and Methodology (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course provides an 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)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course provides principles and techniques involved in developing an emergency management plan for a public or private sector organization. Explore the processes involved in data gathering, hazard identification and vulnerability assessment, and plan development. Students will prepare a draft of an emergency management plan for an organization of their choice. 54 lecture hours.

EMER 168 Emergency Operations Center (EOC) Management (3)

Strongly recommended: READ 099 if required by reading placement examination 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.

Engineering

(Physical Sciences and Engineering Department)

Engineering is concerned with the application of scientific and mathematical theories and principles to solve practical technical problems.

Citrus College offers two tracks in their engineering program: The first track is designed to prepare a student for transfer to a four-year college with junior standing. Along with the engineering courses, students will take physics, chemistry, and mathematics.

Since there is a high level of variability in engineering programs at various institutions, the student seeks early assistance in planning their specific course of study.

The second track offers, along with the opportunity to transfer, more pragmatic and applied aspects of engineering.

Certificates of Achievement:

INFORMATION TECHNOLOGY

REQUIRED COURSES: PHYS 110, ENGR 104, 107, 108, 109

Engineering Courses

(See Also Drafting Technology)

ENGR 100 Principles of Technology (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course in the principles of technology using applied physics in practical applications. Designed for those who plan to pursue careers as technicians or for those who want to keep pace with the advances in modern technology. 36 lecture hours, 54 lab hours.

ENGR 104 PC Hardware and Maintenance (4)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course will be of interest to computer technicians, field service and help desk support personnel, as well as, individuals interested in enhancing their technical skills and knowledge of the PC system. The course starts from the basic entry level concepts, and quickly progresses into discussing advanced topics related to the PC industry. It will lay the foundation for attendees to prepare for the A+ certification tests or to pursue further training for the MCSE program. This course may be taken two times. 54 lecture hours, 54 lab hours.

ENGR 107 Network Technology (4)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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.

ENGR 108 Networking Operating Systems (4)

Strongly recommended: ENGR 107.

This course provided 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.

ENGR 109 Network and Computer Safety (4) (Cr/Nc)

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, 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 is the same as CSIS 109. 54 lecture hours, 54 lab hours.

ENGR 122 Engineering Drawing (3) (Cr/Nc)

Prerequisite: DRAF 101.

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

ENGR 125 Introduction to Engineering CAD (2) (Cr/Nc)

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

ENGR 130 Engineering Graphics (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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. (CAN ENGR 2) CSU;UC

ENGR 135 Engineering Mechanics: Statistics

Prerequisites: PHYS 201 and MATH 190.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A vectorial treatment of the principles of statics with application to engineering problems. Composition and resolution of co-planar and on-planar force systems; equilibrium of rigid bodies; distributed forces; 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.

English

(Language Arts Department)

The English program offers courses from the pre-collegiate through the college sophomore levels to provide students with a comprehensive foundation for writing, textual analysis, and critical thinking which will help them to succeed in composition and literature courses, as well as, enter a satisfying occupation or profession. The English program reflects the diversity found in the college population and fosters a strong liberal arts background through rigorous instruction in literature and its cultural contexts, including history, philosophy, politics and religion. Courses are sequenced appropriately to lead to the A.A. degree or to university transfer: English 40 and 100 are demonstrably effective prerequisites for English 101 and 101H, and these courses are in turn demonstrably effective prerequisites for the advanced writing courses (102, 103, 103H, 104).

English Courses

ENGL 030 Writing Skills I (3) (Cr/Nc)

Prerequisites: Placement is based on multiple assessment measures.

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. This course may be taken three times. 54 lecture hours, 18 lab hours. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ENGL 040 Writing Skills II (3)

Prerequisite: ENGL 030 or placement is based on multiple assessment measure.

Strongly recommended: READ 019 if required by reading placement exam or if required by reading level.

A review of English fundamentals including grammar, spelling, vocabulary, and standard usage with emphasis on punctuation, basic writing skills, and paragraph development. This course is designed primarily for those students preparing for ENGL100. 54 lecture hours, 18 lab hours. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ENGL 100 Fundamentals of Composition (3) (Cr/Nc)

Prerequisite: ENGL 040 or placement based on multiple assessment measures.

Strongly recommended: READ 040 if required by reading placement exam or if required by reading level.

An introduction to the fundamental techniques and rhetorical devices necessary to effective expository prose, with emphasis on paragraph development, outlining, organization, and revision leading to the multiple paragraph essay. This course is designed primarily for students preparing for ENGL 101. 54 lecture hours.

ENGL 101 Reading and Composition (3) (Cr/Nc)

Prerequisite: ENGL 100 or placement based on multiple assessment measures.

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 101H Reading and Composition (3) (Cr/Nc)

Prerequisite: ENGL 100 or placement based on multiple assessment measures.

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) (Cr/Nc)

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)
(Cr/Nc)**

Prerequisite: ENGL 101.

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 literature 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 (3)
(Cr/Nc)**

Prerequisite: ENGL 101.

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

**ENGL 104 Advanced Rhetoric: The Classical Essay (3)
(Cr/Nc)**

Prerequisite: ENGL 101.

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

ENGL 110 Introduction to Technical Writing (3)

Prerequisite: ENGL 100 or placement based on multiple assessment measures.

This computer-based composition course provides instruction in critical thinking, reading, writing, and research skills necessary for working in a computer-based environment. Students will produce resumes, reports, e-mail, instruction manuals, proposals, and perform Internet based research. This course may be taken two times. 54 lecture hours. CSU

ENGL 210 Creative Writing I (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Instruction and practice in various forms of creative expression such as 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

ENGL 211 Creative Writing II (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

ENGL 213 Horror Literature (3)

Prerequisite: ENGL 101.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

ENGL 213H Honors Horror Literature (3)

Prerequisite: ENGL 101 or 101H.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

ENGL 251 Introduction to English Literature I (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Significant works of major British writers in historical perspective. First semester: Anglo-Saxon period through the eighteenth century with emphasis on Chaucer, Shakespeare, and Milton. 54 lecture hours. CSU;UC

ENGL 252 Introduction to English Literature II (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Significant works of major British writers in historical perspective. Second semester: Nineteenth and twentieth centuries with emphasis on the Romantic period, the Victorian period, and the novel. 54 lecture hours. CSU;UC

ENGL 261 Introduction to American Literature I (3)

Students course will 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

ENGL 262 Introduction to American Literature II (3)

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

ENGL 271 Introduction to World Literature: Ancient Medieval (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

ENGL 272 Introduction to World Literature: Renaissance Through Modern (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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, Rousseau, Voltaire, Goethe, Dostoyevsky, etc. 54 lecture hours. CSU;UC

ENGL 290 Multicultural Voices in Film (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introduction to the study of films reflecting the concerns and attitudes of ethnic, racial, gender, and disability groups that historically have been under-represented, distorted, or marginalized in mainstream commercial cinema. This course examines cinematic depictions of African-American, Latinos, Asian-Americans, Native Americans, women, gays and lesbians, and the disabled. 54 lecture hours. CSU;UC

ENGL 291 Film as Literature (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introduction to film as literature, this course is designed to give students an understanding of the application of literary analysis to film. 54 lecture hours. CSU;UC

ENGL 291H Honors Film as Literature (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, ENGL 101 and 103.

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

ENGL 293 Children's Literature (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course is designed to give the student a knowledge and an appreciation of children's books, both fiction and nonfiction. Special emphasis is given to the quality of writing and illustration of award winning books and selected classics. 54 lecture hours. CSU;UC

ENGL 293H Children's Literature (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Also, ENGL 101 and 103.

This honors course is designed to give the student a knowledge and an appreciation of children's books, both fiction and nonfiction. 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-win-

ning books and selected classics. 54 lecture hours. CSU;UC

ENGL 294 Introduction to Shakespeare (3)

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

ENGL 296 Introduction to Folklore (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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, customary, and material culture: speech and names, riddles, proverbs, folk tales, ballads, myths, customs, festivals, games, crafts, drama, food, etc. 54 lecture hours. CSU;UC

ENGL 298 Literature of the Bible (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Reading and discussion of selected books from the Old and New Testaments. Emphasis is on the religious social political ideas, literary qualities, and textual problems. 54 lecture hours. CSU;UC

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 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) (Cr/Nc)

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. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 022 Pronunciation and Conversation II (2) (Cr/Nc)

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) (Cr/Nc)

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 EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 026 Grammar Fundamentals II (2) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: ESL 020 or placement in ESL Level 2 based on multiple assessment measures.

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. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 032 Pronunciation and Conversation III (2) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: ESL 024 or placement in ESL Level 3 based on multiple assessment measures.

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 III (2) (Cr/Nc)

Prerequisite: ESL 026 or placement in ESL Level 3 based on multiple assessment measures.

A course for low-intermediate ESL students designed to improve their grammatical accuracy in spoken and 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. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 040 English Language Skills IV (3) (Cr/Nc)

Prerequisite: ESL 030 or placement in ESL Level 4 based on multiple assessment measures.

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. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 042 Pronunciation and Conversation IV (2) (Cr/Nc)

Strongly recommended: For students enrolled in ESL Level 4 core courses.

A course for high 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 044 Reading/Vocabulary IV (2) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: ESL 036 or placement in ESL Level 4 based on multiple assessment measures.

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. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 053 Bridge to College Literature (2) (Cr/Nc)

Prerequisite: ESL 040 or placement in ESL Level 5 based on multiple assessment measures.

Strongly recommended: For student enrolled in ESL Level 5 core courses.

This reading and vocabulary course is designed to help ESL students develop the skills necessary for analyzing and writing about literature in English at the college level. 36 lecture hours. NOTE: THE UNITS FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 054 Bridge to College Reading (2) (Cr/Nc)

Prerequisite: ESL 044 or placement in ESL level 5 based on multiple assessment measures.

Strongly recommended: For students enrolled in ESL Level 5 core courses.

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 FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 056 Grammar Review II (2) (Cr/Nc)

Prerequisite: ESL 046 or placement in ESL Level 5 based on multiple assessment measures.

Strongly recommended: For students enrolled in ESL Level 5 core courses.

A course for 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 statements, reported speech, modals and phrasal verbs, and subordinate clauses. 36 lecture hours, 9 lab hours. NOTE: THE UNITS FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 070 American Idioms I (1) (Cr/Nc)

A course for intermediate ESL students. The course is designed to introduce to students the most frequently occurring idiomatic expressions, which in the colloquial speech often heard outside the classroom. 18 lecture hours. NOTE: THE UNITS FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 100 Fundamentals of Composition (4) (Cr/Nc)

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. UC

ESL 101 Reading and Composition (3) (Cr/Nc)

Prerequisite: ESL 100 or placement in ESL Level 6 based on multiple assessment measures.

A composition and reading course. Instruction and practice in expository writing and research techniques. The course content parallels ENGL 101, differing in that the reading is non-fiction. 54 lecture hours, 18 lab hours. (see counselor regarding UC transferability) CSU;UC

Forestry

(Biological 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.

Certificates of Achievement:

FORESTRY

REQUIRED COURSES: FOR 101, 102, 103, 104, 105,106; ESCI 180

EMPLOYMENT OPPORTUNITY:

Entry-level forest technician in private or public sector.

Forestry Courses

FOR 101 Introduction to Forestry (3) (Cr/Nc)

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) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A lecture course examining 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) (Cr/Nc)

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 lecture hours, 54 lab hours. CSU

FOR 104 Introduction to Outdoor Recreation (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Covers the historical development of recreation and the role of 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) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course designed to provide 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) (Cr/Nc)

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

Cooperative Education Courses**FOR 698A Cooperative Education (1) (Cr/Nc)**

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. 60 lab hours arranged per semester. This course may be taken four times.

FOR 698B Cooperative Education (2) (Cr/Nc)

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. 120 lab hours arranged per semester. This course may be taken four times.

FOR 698C Cooperative Education (3) (Cr/Nc)

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 Forestry at their place of volunteer employment or training sites. 180 lab hours arranged per semester. This course may be taken four times.

FOR 698D Cooperative Education (4) (Cr/Nc)

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 Forestry at their place of volunteer employment or training sites. 240 lab hours arranged per semester. This course may be taken four times.

FOR 699A Cooperative Education (1) (Cr/Nc)

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. 75 lab hours arranged per semester. This course may be taken four times.

FOR 699B Cooperative Education (2) (Cr/Nc)

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. 150 lab hours arranged per semester. This course may be taken four times.

FOR 699C Cooperative Education (3) (Cr/Nc)

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. 225 lab hours arranged per semester. This course may be taken four times.

FOR 699D Cooperative Education (4) (Cr/Nc)

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 Forestry at their place of paid employment or training sites. 300 lab hours arranged per semester. This course may be taken four times.

French

(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, guided practice, and a variety of communicative activities in the target language, with individual work in the language lab, using various media.

French Courses

FREN 101 French I (4)

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. 72 lecture hours, 18 lab hours. CSU;UC

FREN 102 French II (4)

Prerequisite: FREN 101 or one year high school French.

A further study of elementary French grammar and vocabulary which develops understanding, speaking, reading, and writing skills. Includes additional study of

French culture. 72 lecture hours, 18 lab hours. CSU;UC

FREN 201 French III (4)

Prerequisite: FREN 102 or two years high school French.

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

FREN 202 French IV (4)

Prerequisite: FREN 201 or three years high school French.

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 is provided. Grammatical concepts are thoroughly reviewed and expanded. 72 lecture hours. CSU;UC

Geography, Cultural

(Social Sciences Department)

Geography Courses

GEOG 102 Cultural Geography (3) (Cr/Nc)

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

German

(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, guided practice, and a variety of communicative activities in the target language, with individual work in the language lab, using various media.

German Courses

GER 101 German I (4)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course in elementary German grammar, vocabulary, and pronunciation which focuses on understanding, speaking, reading, and writing simple German and serves as an introduction to the geography, history, and culture of the German speaking world. 72 lecture hours, 18 lab hours. CSU;UC

GER 102 German II (4)

Prerequisite: GER 101 or one year high school German. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A further study of elementary German grammar which develops understanding, speaking, reading and writing skills. Includes German culture. 72 lecture hours, 18 lab hours. CSU;UC

GER 201 German III (4)

Prerequisite: GER 102 or two years high school German.

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

GER 202 German IV (4)

Prerequisite: GER 201 or three years high school German.

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 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

Health Sciences

(Health Occupations)

The courses listed in this area are for those persons needing specialization in certain health care or health service occupations.

Skill Awards:

ACTIVITY AND SOCIAL SERVICE DOCUMENTATION

REQUIRED COURSES: HEAL 266
EMPLOYMENT OPPORTUNITY:
Advanced Activity Leader II

EMERGENCY MEDICAL TECHNICIAN

REQUIRED COURSES: HEAL 161
EMPLOYMENT OPPORTUNITY:
Emergency Ambulance Driver and
EMT Dispatcher, Patient Care Advocate

HOSPITAL UNIT CLERK

REQUIRED COURSES: HEAL 105
EMPLOYMENT OPPORTUNITY:
Ward Clerk
Unit Secretary

MEDICAL TERMINOLOGY

REQUIRED COURSES: HEAL 156
EMPLOYMENT OPPORTUNITY:
Preparation for Health Career

ACTIVITY COORDINATOR

REQUIRED COURSES: HEAL 264
EMPLOYMENT OPPORTUNITY:
Skilled Nursing Facility Activity Leader I

SUB-ACUTE/PEDIATRICS ACTIVITY LEADER

REQUIRED COURSES: HEAL 264
EMPLOYMENT OPPORTUNITY:
Pediatric Nursing Activity Leader I

Health Sciences Courses

HEAL 100 Emergency Medical Services Career Preparation (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Health Occupations 100 is designed to provide the student with the knowledge and skills necessary to begin an entry-level career in Emergency Medical Services (EMS) and other allied health-related fields of patient care. This course provides beginning concepts of preparatory sciences directly related to the care of sick and injured persons. It also covers the knowledge and skills necessary for American Heart Association (AHA) cardiopulmonary resuscitation (CPR) certification and first aid certificate of achievement for healthcare providers. Successful completion of this course is required for enrollment into the Emergency Medical Technician Basic Program. This course may be taken two times. 36 lecture hours, 54 lab hours.

HEAL 105 Hospital Unit Coordinator (5)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Provides information needed to perform secretarial or clerical duties on a nursing unit in a hospital setting. 72 lecture hours, 54 lab hours.

HEAL 154 Medical Office Procedures (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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.

HEAL 156 Medical Terminology (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course emphasizes basic medical terminology; the spelling and meaning of commonly used prefixes, suffixes, word roots, and their combining forms; the terminology of anatomy and physiology; the health problems of the patient; and the physician's diagnosis, and treatment. 54 lecture hours.

HEAL 157 Therapeutic Communications (1)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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, acupuncture and other modalities to effectively communicate with the patient and others. 18 lecture hours.

HEAL 158 Therapeutic Interventions for the Health Care Worker (1)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course covers the principles of healing touch and provides actual clinical experience in a clinical setting for the nurse. 18 lecture hours, 27 lab hours.

HEAL 159 Medical Terminology and Transcription I (4)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The terminology of anatomy and physiology, learning the skills of transcribing medical reports. 72 lecture hours, 18 lab hours.

HEAL 160 Medical Terminology and Transcription II (4)

This course teaches common disease 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.

HEAL 161 Emergency Medical Technician - Basic (7)

The entry level course in emergency training for those involved in Emergency Medical Services. 108 lecture hours, 54 lab hour hours.

HEAL 170 Advanced Medical Terminology and Transcription (4)

Prerequisite: HEAL 160.

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.

HEAL 260 Gerontology I (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course provides a thorough introduction to the care of the Older Adult by the multi-disciplinary health team:

physician, nurse, dietician, activity director, physical therapist, and others. It reviews aging issues and changes in the health care delivery system. 54 lecture hours.

HEAL 264 Activity Coordinator (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introductory course designed to meet state and national certification minimum requirements for activity leaders in skilled nursing care facilities. This course will also be helpful to anyone involved with care in an extended care facility. 36 lecture hours, 54 lab hours.

HEAL 266 Activity and Social Service Documentation (2)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course meets the documentation requirements established by O.B.R.A. for activity leaders in a skilled nursing facility. Emphasis upon federal and state regulations, data collection, care plan development, progress notes, including techniques for the client with special needs. 18 lecture hours, 54 lab hours.

HEAL 267 Sub-Acute/Pediatrics Activity Leader (3) (Cr/Nc)

An introductory course designed to meet state minimum requirements for activity leaders in sub-acute and pediatrics setting. This course will also be helpful to anyone involved with the care of pediatric clients in a home care setting and with volunteers, working in extended-care facility. 54 lecture hours, 27 lab hours.

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 sector.

Certificate of Achievement:

REQUIRED COURSES: HEAT 170, 180, 182 and 184 plus two of the following; HEAT 186, 188 or SPCH 100

Heating and Air Conditioning Courses

HEAT 170 Air Conditioning I (2) (Cr/Nc)

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) (Cr/Nc)

A course in the fundamentals of air conditioning, including ventilation, evaporation, cycles, charging, air distribution, control, electrical circuiting, venting, duct systems and diffusions. Emphasis on equipment selection, balance, adjustment, maintenance and service. Prepares students for EPA exam. 36 lecture hours, 18 lab hours.

HEAT 182 Heating - Electrical and Gas (2) (Cr/Nc)

This course includes absorption systems, heating and humidifying, also heat load and heat pump systems, systems controls, boilers, and instruments. 36 lecture hours, 18 lab hours.

HEAT 184 Electricity for Heating and Air Conditioning (2) (Cr/Nc)

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) (Cr/Nc)

Strongly recommended: Successful completion of HEAT 170 student learning outcomes.

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 lecture hours, 18 lab hours.

HEAT 188 Trouble Shooting Heating and Air Conditioning (2) (Cr/Nc)

Strongly recommended: Successful completion of HEAT 170 student learning outcomes.

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) (Cr/Nc)

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) (Cr/Nc)

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 (2) (Cr/Nc)

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) (Cr/Nc)

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. 240 lab hours arranged per semester.

HEAT 699A Cooperative Education (1) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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 1500CE (3)

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 (3)

Strongly recommended: READ 099 if 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 analysis 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 1500 (3)

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 1500's regional isolation to modern-day globalism 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)

Prerequisite: 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)

Strongly recommended: 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)

Strongly recommended: ENGL 100.

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 (3)

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 US 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)

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 (3)

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)

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)

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-Americans (3)

Strongly recommended: 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)

Strongly recommended: 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 117 History of East Asian Civilizations (3)

Strongly recommended: ENGL 100.

A survey of the historical, political, and historical developments of China, Japan, Korea, and Southeast Asia. An emphasis will be placed on cultural traditions of the

above, especially that of China. 54 lecture hours. CSU;UC

HIST 120 British Life and Culture (3) (Cr/Nc)

Strongly recommended: ENGL 100.

An overview of British culture and civilization. Offered for Credit/No Credit grading only. 54 lecture hours.(3 hrs/wk for 13 weeks plus 15 hrs. lectures in field) CSU

HIST 123 French Life and Culture 3) (Cr/Nc)

Strongly recommended: ENGL 100.

An overview of French culture and civilization which provides an interdisciplinary understanding of the French people and their contributions to the world. Guest lectures and weekly field trips to historical sites in and around Paris are part of the teaching process. Offered for Credit/No Credit grading only. 54 lecture hours. CSU

HIST 125 Mexican Life and Culture (3) (Cr/Nc)

Strongly recommended: ENGL 100.

Mexican Life and Culture provides an interdisciplinary understanding of Mexican civilization. The course provides a social and historical approach to contemporary Mexican society and examines the traditions and institutions that shape the Mexican way of life in the 20th century. Offered for Credit/No Credit grading only. 54 lecture hours. CSU

HIST 127 Spanish Civilization (3) (Cr/Nc)

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 SPAN 127. Offered for Credit/No Credit or letter grade. 54 lecture hours. CSU

HIST 130 History of Latin America (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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 America to 1825 (3) (Cr/Nc)

Strongly recommended: Successful completion of ENGL 100.

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 139 History of California (3) (Cr/Nc)

Strongly recommended: Successful completion of 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) (Cr/Nc)

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) (Cr/Nc)

Strongly recommended: Successful completion of ENGL 100.

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

HIST 155 History of the Vietnam War (3)

Strongly recommended: Successful completion of ENGL 100.

An examination of the background and involvement of America in the Vietnam War. The course will primarily focus on the American involvement in Southeast Asia, but will also examine the origins of Vietnamese nationalism and the struggle for independence in Vietnam and its global implications and manifestations. A Cold War framework developed early in the course will be utilized to understand U.S. involvement in the Vietnam War. The course will conclude with an assessment of the long term effects of the Vietnam War on American society and the rest of the world. 54 lecture hours. CSU;UC

HIST 222 History of World War II(3) (Cr/Nc)

An examination of the circumstances and events leading to US entry into World War II. The course will focus on American involvement in World War II, but will also examine the systemic fracturing of the world order through the rise of Japanese, German, and Italian imperialism, assess the impact of the worldwide economic depression in the 1930's, military strategies and conduct, and analyze the impact of the war on the home front, as well as, the long-term effects on American policy and the world. 54 lecture hours. CSU;UC

Humanities

(Social Sciences Department)

The humanities seek to render an integrative and critical examination of the human achievements in art, literature, philosophy and music. This approach will broaden and enrich the students' appreciation of human values derived from the creative forces as expressed in the arts.

Courses offered in this curriculum meet general education and transfer requirements and may be applied to a major in humanities for an Associate in Arts degree.

Humanities Courses**HUM 101 Humanities (3)**

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 (3)

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 102 Humanities (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The humanistic studies are approached on four levels: art, music, literature, and philosophy. Begins with the Renaissance and moves to the mid-19th century period.

54 lecture hours. CSU;UC

HUM 110 Humanities in the 20th Century (3)

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)

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 (4)**

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. 72 lecture hours, 18 lab hours. CSU;UC

JPN 102 Japanese II (4)

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. 72 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.

*Corresponds to two years of high school study.

Certificates of Achievement:

LIBRARY TECHNOLOGY

REQUIRED COURSES: LIBT 101, 102, 201, 203, 295; CSIS 130 plus one elective
ELECTIVES: LIBT 103, 290; BUS 152, OFF 285
EMPLOYMENT OPPORTUNITY:
Library Technician

Library Technology Courses

LIBT 100 Information Literacy (1) (Cr/Nc)

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)

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, interlibrary loan and others. 36 lecture hours

LIBT 102 Information Sources and Research Methods (3)

Students will survey and evaluate a broad range of reference materials, databases, Internet search engines, and websites. They will prepare a bibliography, present a library orientation, learn how to conduct the reference interview, and formulate search strategies for answering user queries. 54 lecture hours. CSU

LIBT 103 Library Support Services (2)

Theory and practice in a variety of paraprofessional library services. Book binding, materials repair, preservation of archival materials and the history of printing. Experience will be provided in the preparation of signs, publications, displays, and instructional materials using graphic techniques. 36 lecture hours.

LIBT 201 Introduction to Cataloging (3)

An introduction to the tasks involved with cataloging and processing library materials. Includes descriptive and subject cataloging, classification, processing, card filing and inventory. Covers AACR 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)

An introduction to the techniques 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)

An evaluation of library materials for children with special emphasis on service for children in school and public libraries. Presentation of techniques for assisting in planning and carrying out of reading programs and story hours. 36 lecture hours.

LIBT 295 Audiovisual Services (3)

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) (Cr/Nc)

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 languages. 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: 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.

*MATH 162 and 190 combined, maximum UC credit one course
MATH 170 and 175 combined, maximum UC credit, one course

Mathematics Courses

MATH 017 Basic Math and Study Skills (3)

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. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

MATH 020 Arithmetic Fundamentals (3) (Cr/Nc)

Prerequisite: Placement is based on multiple assessment measures or MATH 17.

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 Prealgebra (3) (Cr/Nc)

Prerequisite: Placement is based on multiple assessment measures including cut-scores or successful completion of MATH 20.

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. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

MATH 090 Selected Topics in Elementary Algebra (2) (Cr/Nc)

Prerequisite: MATH 029.

Factoring polynomials, the rectangular coordinate system and linear equations. Intended for students who have completed MATH 029 but have been unsuccessful in completing MATH 130. 108 lab hours. Offered for Credit/No Credit grading only. 6 hours lab per week.

MATH 115 Business Mathematics (3) (Cr/Nc only)

Prerequisite: 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 129 Elementary Algebra Tech (4)

Prerequisite: Placement is based on multiple assessment measures including cut-scores or successful completion of MATH 029.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Technology-enhanced class with hands-on computer applications covering 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 introduc-

tion to functions. Written communication skills will be emphasized. 72 lecture hours, 36 lab hours.

MATH 130 Elementary Algebra (4) (Cr/Nc)

Prerequisite: Placement is based on multiple assessment measures including cut-scores or successful completion of MATH 029.

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) (Cr/Nc)

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) (Cr/Nc)

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, and complex numbers. 54 lecture hours. NOTE: BOTH MATH 148 AND MATH 149 MUST BE COMPLETED TO SATISFY ANY PREREQUISITE REQUIRING (MATH 150). MAY NOT BE TAKEN CONCURRENTLY WITH MATH 150. STUDENTS MAY NOT EARN MORE THAN FIVE UNITS IN ANY COMBINATION OF MATH 148, 149 AND 150.

MATH 149 Intermediate Algebra II (2.5) (Cr/Nc)

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. NOTE: BOTH MATH 148 AND MATH 149 MUST BE COMPLETED TO SATISFY ANY PREREQUISITE REQUIRING INTERMEDIATE ALGEBRA. THIS COURSE MAY NOT BE TAKEN CONCURRENTLY WITH MATH

150. STUDENTS MAY NOT EARN MORE THAN A TOTAL OF FIVE UNITS IN ANY COMBINATION OF MATH 148, 149 AND 150.

MATH 150 Intermediate Algebra (5) (Cr/Nc)

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) (Cr/Nc)

Prerequisites: High school geometry or MATH 131 and MATH 149 or 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

MATH 160 Survey of Mathematics (3) (Cr/Nc)

Prerequisites: 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) (Cr/Nc)

Prerequisites: MATH 149 or MATH 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)

Prerequisites: 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 discipline 72 lecture hours, 36 lab hours. CSU;UC

MATH 165H Introductory Statistics (4) (Cr/Nc)

Prerequisites: 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. 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)

Prerequisites: MATH 149 or MATH 150.

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)

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)

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 (3)

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 175 Pre-Calculus (4)

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) (Cr/Nc)

Prerequisite: MATH 175.

Introduction to differential and integral calculus with applications; functions; limits; and continuity; techniques of differentiation; exponential; logarithmic; and inverse trigonometric functions. 54 lecture hours. CSU;UC

MATH 191 Calculus with Analytic Geometry II (4) (Cr/Nc)

Prerequisite: MATH 190.

Continuation of integral calculus with applications; techniques of integration; sequences and series; analytic geometry; plane curves; parametric equations; and polar coordinates. 54 lecture hours. CSU;UC

MATH 210 Calculus with Analytic Geometry III (4) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: MATH 191.

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)

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, Eigen values and eigenvectors and linear transformations. 72 lecture hours. CSU;UC

Medium & Heavy Diesel-Truck Technology

(Transportation Technology Department)

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.

Certificates of Achievement:

MEDIUM AND HEAVY DIESEL-TRUCK TECHNOLOGY

REQUIRED COURSES:

MTRK 130 and 230

EMPLOYMENT OPPORTUNITY:

Maintenance Technician, Diesel Mechanic: Heavy Equipment, Marine, Off-road, Over-the-road, Stationary

Certificates of Achievement:

DIESEL TECHNICIAN

REQUIRED COURSES: MTRK 270 and three electives

ELECTIVES: MTRK 235, 240, 245, 280

Medium and Heavy Diesel -Truck Technology Courses

MTRK 100 Introduction to Medium Truck Service and Repair (1) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course will offer an overview of technology used in the medium truck, diesel and gasoline powered arena. It will provide students with a basic knowledge of medium truck operation, including the necessary requirements and equipment to enter this career field. This course may be taken two times. 18 lecture hours, 54 lab hours.

MTRK 105 Diesel and Gasoline Generator Technology (2) (Cr/Nc)

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, 54 lab hours.

MTRK 108 Introduction to Transportation Technology (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course will offer an overview of technology used in the vehicle, diesel, and gasoline powered arena. It will provide students with a basic knowledge of gasoline and diesel vehicle technology, including personal watercraft, motorcycles, and collision repair. The course will also cover necessary requirements and equipment to enter this career field. This course may be taken two times. 36 lecture hours, 54 lab hours.

MTRK 130 Diesel Medium/Heavy Truck Technology I (11) (Cr/Nc)

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, 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) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: MTRK 130 or equivalent experience.

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) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Includes the theory and operation of the 2- and 4-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) (Cr/Nc)

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) (Cr/Nc)

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)

Strongly recommended: MTRK 100 or MTRK 130.

Also, READ 099 if required by reading placement exam or if required by reading level.

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/Ohm meter (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)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course concentrates 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)

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 specification. 18 lecture hours, 54 lab hours.

MTRK 272 Diesel Engine Troubleshooting (2)

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)

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) (Cr/Nc)

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 (trucking and bussing). Included are theory and systems operation and diagnosis. The machine shop practice and precision tooling used for reconditioning 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) (Cr/Nc)

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 an 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.

Motorcycle & Watercraft Technology

(Transportation Technology Department)

These course offerings prepare students for entry level occupations in motorcycle or small engine repair.

Skill Awards:

MOTORCYCLE REPAIR

REQUIRED COURSES: MOTO 100, 101

EMPLOYMENT OPPORTUNITY:

Motorcycle Mechanic, Parts Salesperson,
Motorcycle Salesperson

Motorcycle Technology Courses

MOTO 100 Motorcycle Repair I (2) (Cr/Nc)

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 ATV's. The student will gain entry-level skills for the motorcycle repair industry. 18 lecture hours, 54 lab hours.

MOTO 101 Motorcycle Repair II (2) (Cr/Nc)

Prerequisite: MOTO 100.

A course in diagnosing and repairing motorcycle and ATV engines, transmissions, fuel systems, and chassis components. 18 lecture hours, 54 lab hours.

MOTO 102 Personal Watercraft Repair I (2) (Cr/Nc)

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) (Cr/Nc)

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 employ-

ment in the watercraft industry. This course may be taken two times. 18 lecture hours, 54 lab hours.

MOTO 105 Fundamentals of Motorcycle Technology (2) (Cr/Nc)

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 warrant. 18 lecture hours, 54 lab hours.

MOTO 291 Engine Performance Enhancements and Tuning (3) (Cr/Nc)

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.

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) (Cr/Nc)

Prerequisite: Audition.

Corequisite: MUS 290 or 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 styling's 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, 36 lab hours. CSU

MUS 131 Career Opportunities in the Music Entertainment Industry (3) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: Audition

Corequisite: MUS 290 or 291 or 292.

A course for vocalists and instrumentalists in the techniques from Motown, Soul, Folk-Rock and Psychedelic Rock of the 60's to contemporary pop and rock, Tex-Mex and Salsa, and contemporary vocal jazz groups, with a focus on the small ensemble setting. Students will work extensively on these rock and pop styling's 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, 36 lab hours. CSU

MUS 140 Electronic Music I (2) (Cr/Nc)

Basic theory and practice of electronic music synthesis including synthesizer components and electronic sound processing, recording, editing, and mixing techniques. 36 lecture hours, 18 lab hours. CSU

MUS 141 Electronic Music II (2) (Cr/Nc)

Prerequisite: MUS 140.

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. CSU

MUS 145 Pop, Rock, and Jazz Performance Styles (4) (Cr/Nc)

Prerequisite: Audition.

Corequisite: MUS 290 or 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. May be taken four times. 36 lecture hours, 126 lab hours. CSU

MUS 146 Pop/Cumbia Ensemble I (2) (Cr/Nc)

Prerequisite: Audition.

Corequisite: MUS 290 or 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 rhythmic 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) (Cr/Nc)

Prerequisite: Audition.

Corequisite: MUS 290 or 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 rhythmic 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

MUS 150 Professional Performance Techniques (3) (Cr/Nc)

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)

Prerequisites: MUS 105 and 112.

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)

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, Technique, and the Soul of Popular Singing (2) (Cr/Nc)

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.

MUS 209 Musical Theatre Academy Production (4) (Cr/Nc)

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) (Cr/Nc)

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 Summer Ensemble (Classical) (4) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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, 108 lab hours. CSU;UC

MUS 215 Musical Theatre Production (3) (Cr/Nc)

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) (Cr/Nc)

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 228 Jazz Ensemble Summer Tour (7) (Cr/Nc)

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

MUS 240 Electronic Music III (2) (Cr/Nc)

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 241 Electronic Music IV (2) (Cr/Nc)

Prerequisite: MUS 240.

Continued study of advanced theory and practice of electronic music synthesis including digital samplers, electronic sound processing and recording. Emphasis on computer manipulation and control of MIDI instruments and devices. 36 lecture hours, 18 lab hours. CSU

MUS 290 Applied Music (2)

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. CSU;UC

MUS 291 Applied Music / Individual Instruction (Classical) (2) (Cr/Nc)

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

MUS 292 Applied Music / Individual Instruction (Pop) (2) (Cr/Nc)

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 popular 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 and Theory Courses**MUS 100 Musicianship (2)**

Corequisite: Recommendation by instructor(s) of music courses which require knowledge of sight-singing.

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

MUS 101 Musicianship (2)

Prerequisites: MUS 100 and 102.

Corequisite: MUS 103. Also, recommendation by instructor(s) of music courses which require knowledge of sight-singing.

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

MUS 102 Harmony (3)

Corequisite: MUS 100.

Strongly recommended: MUS 112.

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

MUS 103 Harmony (3)

Prerequisite: MUS 102.

Corequisite: MUS 101.

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

MUS 110 History of Music I (3)

This is an in-depth course examining the history of music as well as the lives and contributions of major composers from Antiquity, the Middle Ages, the Renaissance, and the Baroque periods. Required for music majors. 54 lecture hours. CSU;UC

MUS 111 History of Music II (3)

This is an in-depth course examining the history of music as well as the lives and contributions of major composers from the Classical, Romantic, and 20th Century periods. Required for music majors. 54 lecture hours. CSU;UC

MUS 112 Music Fundamentals (3)

This course emphasizes basic music skills. Recommended for all students desiring a foundation in beginning theory, notation, ear training, and composition. 54 lecture hours, 18 lab hours. CSU;UC

MUS 113 History of Rock & Roll (3) (Cr/Nc)

This course focuses on the rock musician, the music and the manner in which sociological, political, and economic conditions merged in the evolution of this art form. Listening and classroom discussion will be stressed. 54 lecture hours. CSU;UC

MUS 114 Music Appreciation (3)

This course is an introduction to music from the Middle Ages to the 20th Century. Instruction includes basic music theory, a study of prominent composers, and a survey of musical forms. Recommended for the non-music major. Required for music majors. 54 lecture hours. CSU;UC

MUS 170 Sight Reading for the Studio (3) (Cr/Nc)

Prerequisite: Audition.

Strongly recommended: MUS 112. Also, READ 099 if required by reading placement exam or if required by reading level.

A preparatory course in sight-reading for the aspiring performer/studio musician. Focus is upon polished/professional performance through the application of music theory and analysis to the sight-reading process. This course may be taken four times. 54 lecture hours, 18 lab hours. CSU

MUS 200 Musicianship (2)

Prerequisites: MUS 101 and 103.

Corequisite: MUS 202.

Emphasis is on melodic and rhythmic dictation. Required for music majors. 36 lecture hours. CSU;UC

MUS 201 Musicianship (2)

Prerequisites: MUS 200 and 202.

Corequisite: MUS 203

A continuation of MUS 200. This course will include more challenging rhythmic, melodic, and harmonic dictation. 36 lecture hours. CSU;UC

MUS 202 Harmony (3)

Prerequisite: MUS 103.

Corequisite: MUS 200 .

Continuation of first year's study, including seventh chords, secondary dominants, modality, harmonic structure of the phrase, harmonization of a given part, har-

monic rhythm, irregular resolutions of secondary dominants, analysis of melodies, short works for piano, chorales, and songs. Required of all music majors. 54 lecture hours. CSU;UC

MUS 203 Harmony (3)

Prerequisites: MUS 200 and 202.

Corequisite: MUS 201.

Units on orchestration, modern compositional techniques, jazz, 18th century counterpoint, and analysis of large forms (sonatas, symphonies, string quartets). Studies concerned with dominant ninth chords (incomplete, complete, major, and minor) sequences, non-dominant harmony, ninth, eleventh, and thirteenth chords, Neapolitan sixth, augmented sixth chords, and other chromatic chords. Required of all music majors. 54 lecture hours. CSU;UC

MUS 218 History of Jazz (3)

A survey of jazz music. This course provides an opportunity to explore jazz music, its origins, its many styles, and some of the great names whose artistry influenced its development. The effect of jazz on other musical forms such as classical and rock & roll will be explored as well. 54 lecture hours. CSU;UC

MUS 219 World Music (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course compares and contrasts the musical traditions and instruments of the folk, tribal, and classical music of India, china, Japan, southeast Asia, the Middle East, Africa, Europe, and the Americas. Listening and discussion will be stressed. 54 lecture hours. CSU;UC

MUS 225 Introduction to American Music (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

Instrumental Courses**MUS 105 Elementary Piano I (2)**

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)

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)

Prerequisite: Audition.

Corequisite: MUS 290 or 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)

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 lecture hours. CSU;UC

MUS 109 Brass and Percussion Techniques (1)

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 lecture hours. CSU;UC

MUS 122 Beginning Guitar I (2)

Stringing, tuning, fingering, playing techniques, notation, chords and chord progressions, reading guitar music, playing simple melodies and accompaniment. 36 lecture hours. CSU;UC

MUS 123 Beginning Guitar II (2)

Prerequisite: MUS 122.

This course continues the development of skill begun in MUS 122. In addition, the following areas are covered:

barre-chords, additional accompaniment techniques, major and minor scale patterns in first position. 36 lecture hours. CSU;UC

MUS 124 Intermediate Guitar (2)

Prerequisite: MUS 123.

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 (2)

Prerequisite: MUS 124.

This course is a continuation of the first semester intermediate guitar (Music 124). In addition, the following areas are covered: solo guitar playing, guitar literature and ensemble playing. 36 lecture hours. CSU;UC

MUS 127 Brass Instrumentation/Technique I

Corequisite: MUS 107, 153, 207 & 208.

Selected intermediate and advanced brass studies to further knowledge and tonal proficiencies of musicians. Study of solo literature from the Renaissance to the Classical era, chosen to suit the student's performance level. This course may be taken four times. 54 lab hours. CSU;UC

MUS 128 Brass Instrumentation/Technique II

Corequisite: MUS 107, 153, 207 & 208.

Selected intermediate and advanced brass studies to further knowledge and tonal proficiencies of musicians. Study of solo literature from the Baroque era to contemporary brass music, chosen to suit the student's performance level. This course may be taken four times. 54 lab hours. CSU;UC

MUS 130 Guitar Ensemble (2)

Prerequisite: MUS 123 or Audition.

Rehearsal and performance of original and transcribed guitar ensemble literature from the Renaissance to 20th Century and jazz. This course may be taken four times. 36 lecture hours. CSU; UC.

MUS 137 Standard Percussion Instrumentation/Techniques (1)

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 students proficiency on the standard percussion instruments. Study of solo and ensemble literature from different periods of music chosen to suit the students performance level. This

course may be taken four times. 18 lecture hours, 36 lab hours. CSU;UC

MUS 138 World Percussion Instrumentation/Techniques (1)

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 152 Jazz Combos (1)

Prerequisite: Instructor placement evaluation.
Corequisite: MUS 290 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. 72 lab hours. CSU;UC

MUS 153 Chamber Jazz (4)

Prerequisite: Audition.
Corequisite: MUS 108 or 109 and 290, 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, 126 lab hours. CSU;UC

MUS 154 Jazz Improvisation (3)

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. CSU;UC

MUS 155 The Professional Pianist (2)

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) (Cr/Nc)

Prerequisite: Audition or successful completion of the Student Learning Outcomes of 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) (Cr/Nc)

Prerequisite: Audition or successful completion of the Student Learning Outcomes of 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;UC

MUS 161 Keyboard Skills for the Music Major (3)

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, harmonization, sight-reading, keyboard harmony, and ensemble playing. 54 lecture hours.

MUS 205 Intermediate Piano I (2)

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;UC

MUS 206 Intermediate Piano II (2)

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;UC

MUS 207 Laboratory Band (2)

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;UC

MUS 208 Studio Orchestra (4)

Prerequisite: Audition.

Corequisites: MUS 108 or 109 and 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, 126 lab hours. CSU

MUS 216 Brass Choir I (3)

Prerequisite: Audition.

Corequisites: MUS 290 and 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;UC

MUS 217 Chamber Winds I (4)

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;UC

MUS 221 Drum and Bugle Corps (2)

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)

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)

Prerequisite: Audition.

Corequisites: MUS 290 and 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)

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;UC

MUS 229 Summer Instrumental Music Academy (3)

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)

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, 108 lab hours. CSU;UC

MUS 235 Advanced Piano I (2)

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;UC

MUS 236 Advanced Piano II (2)

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 simi-

lar background, required of all music majors. 36 hours lecture. CSU;UC

MUS 244 Wind Symphony II (4)

Prerequisite: Audition.

The study and performance of advanced wind band literature, with an emphasis on the exploration of contemporary 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, 108 lab hours. CSU;UC

MUS 252 Fusion Ensemble (1)

Corequisites: MUS 290, 291 or 292.

Students 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. 72 lab hours. CSU;UC

Vocal Courses

MUS 115 Voice (2)

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 hours lecture, 18 lab hours. CSU;UC

MUS 116 Chamber Singers I (4)

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

MUS 117 Vocal Ensemble I (3)

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

MUS 118 Concert Choir I (3)

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, 54 lab hours. CSU;UC

MUS 119 Concert Choir II (3)

A more in-depth study of standard choral literature: special attention is given to tone production, phrasing, and interpretation. Participation in public performances is required. This course may be taken four times. 54 lecture hours, 36 lab hours. CSU;UC

MUS 120 Opera Workshop (2)

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

MUS 121 Chamber Chorale (3)

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 is required. This course may be taken four times. 36 lecture hours, 90 lab hours. CSU;UC

MUS 126 Chamber Singers II (4)

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

MUS 210 Intermediate Voice (2)

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. CSU;UC

MUS 222 Women's Tour Ensemble (4)

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

MUS 230 Advanced voice (Classical) (2) (Cr/Nc)

Prerequisite: MUS 210.

Advanced vocal exercises and techniques, analysis and repertoire development used in performing classical literature for the solo voice. This course may be taken four times. 36 lecture hours, 18 lab hours. CSU;UC

MUS 231 Advanced Voice (Popular) (2)

Prerequisite: MUS 210 or Audition.

Advanced vocal exercises and techniques, analysis and repertoire development used in performing popular literature for the solo voice. This course may be taken four times. 36 lecture hours, 18 lab hours. CSU;UC

MUS 232 Women's Ensemble I (4)

Prerequisite: Audition.

This course prepares the student for in-depth women's ensemble performance. Emphasis on study and performance of classical compositions for women's ensemble. Public performance is required. This course may be taken four times. 36 lecture hours, 126 lab hours. CSU;UC

MUS 233 Men's Ensemble (3)

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 hours lecture, 54 hours lab. CSU;UC

MUS 242 Women's Ensemble II (4)

Prerequisite: Audition.

This course prepares the student for in-depth women's ensemble performance. Emphasis on study and performance of pop compositions for women's ensemble. Public performance is required. This course may be taken four times. 36 lecture hours, 126 lab hours. CSU;UC

MUS 277 Vocal Ensemble II (3) (Cr/Nc)

Recommended for all students interested in furthering and expanding their knowledge of repertoire for the small vocal ensemble. Includes more in-depth study of standard vocal literature for various combinations of voices with intensive preparation of choral literature for public concerts. Public performance required. This course may be taken four times. 36 lecture hours, 54 lab hours. CSU;UC

MUS 288 Summer Vocal Instruction (2)

A workshop class in applied music and a private one-half hour lesson per week. Classroom activity will include audition techniques, music history background, and an opportunity for performance and assessment in a vocal master class setting. This course may be taken four times. 18 lecture hours, 72 lab hours.

MUS 289 Summer Vocal Music Academy (3)

The Summer Vocal Music Academy provides beginning students with the vocal technique, historical framework, and music reading ability needed to perform. It culminates in the Summer Showcase which provides each student with training, experience, and exposure of performing a principle role. This course may be taken four times. 18 lecture hours, 99 lab hours. CSU

Natural History

(Biological Sciences Department)

Natural History Courses

NAT 151 Natural History of the San Gabriel Mountain Region (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the San Gabriel Mountain region. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 152 Natural History of the Death Valley Region (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Death Valley region. The culmination of the course is three days of class sessions in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 153 Natural History of the Southern California Coastline (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Southern California Coastline. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours, 27 lab hours. CSU

NAT 154 Natural History of the Sierra Nevada Region (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Sierra Nevada region. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 155 Natural History of the High Desert (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the High Desert. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 156 Natural History of the Anza Borrego-Salton Basin (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Anza Borrego-Salton Basin. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 157 Natural History of the Owens Valley (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Owens Valley region. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 158 Natural History of the Western Colorado Plateau (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zone, wildlife, and human history of the Western Colorado Plateau. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 159 Natural History of the Eastern Colorado Plateau (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Eastern Colorado Plateau. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 161 Natural History of the Central San Andreas Region (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Central San Andreas region. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 162 Natural History of the Northern San Andreas Region (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Northern San Andreas region. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 163 Natural History of the Hawaiian Islands (2) (Cr/Nc)

The physiography, climate, geology, life zones, wildlife, and human history of the Hawaiian islands. There will be eleven days of class in the region. A transportation fee will be charged. 27 lecture hours, 27 lab hours. CSU

NAT 164 Natural History of the Channel Islands (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Channel Islands. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 165 Natural History of the Cascade Mountains (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Cascade Mountains. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 166 Natural History of the Banff-Jasper National Park (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Banff-Jasper region. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 167 Natural History of Alaska (2) (Cr/Nc)

The physiography, climate, geology, life zones, wildlife, and human history of Alaska. There will be fifteen days of class in the region. A transportation fee will be charged. 27 lecture hours, 27 lab hours. CSU

NAT 168 Natural History of the Oregon Coast (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Oregon coastline. There will be three days of class in the region. A transportation fee will be charged. 36 lecture hours. CSU

NAT 169 Natural History of the Southeastern Arizona Region (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Southeastern Arizona region. The culmination of the course is seven days of class sessions in the region. A material/transportation fee will be charged. 36 lecture hours. CSU

NAT 170 Natural History of the Central California Coastline (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Central California Coastline region. The culmination of the course is one three-day field trip over one weekend. A material/transportation fee will be charged. 36 lecture hours. CSU

NAT 171 Natural History of the Northern California Coastline (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The physiography, climate, geology, life zones, wildlife, and human history of the Northern California Coastline region. The culmination of the course is one three-day field trip over one weekend. A material/transportation fee will be charged. 36 lecture hours. CSU

NAT 180 Natural History Series Deserts (2.00 to 3.00) (Cr/Nc)

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 or 54 lecture hours. CSU

NAT 181 Natural History Series Coastal Mountains, Coastlines, Tropical Regions and Islands (2.00 to 3.00) (Cr/Nc)

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 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 or 54 lecture hours. CSU

NAT 182 Natural History Series Inland Mountains, Valleys and Alaska (2.00 to 3.00) (Cr/Nc)

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 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 4 times. 36 or 54 lecture hours. CSU

Nursing

Registered Nursing Degree Program (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

Framework.

Advanced placement in the program may be granted to those students with certain prior vocational nursing, or registered nursing education or equivalent. Transfer/challenge applications require and individual appointment with the Program Director or Assistant Program Director.

Completion of an RN information session is strongly advised.

Educational Concerns:

Students or concerned parties have the right to contact the Board of Registered Nursing (BRN). It is recommended that this is done after all college means for resolving problems/issues have been exhausted.

BRN

1170 Durfee Avenue, Suite G
South El Monte, CA 91733
626-575-7080

REGISTERED NURINGS

REQUIRED COURSE: RNRS 190-194 and 200-290

Nursing - Vocational Nursing Certificate of Achievement Program

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

CONTINUING EDUCATION

Many regular courses in behavioral sciences, psychology, life sciences and supervision may be used for continuing education units for licensure renewal for nurses. Also, specialty short-term workshops and refresher courses are scheduled throughout the year. Please call Continuing Education for noncredit course information at (626) 852-8022. Certificates will be issued upon completion of approved courses.

Certificates:

VOCATIONAL NURSING

REQUIRED COURSES: VNRS 150, 151L, 152, 153, 154, 155, 160, 161L, 162, 163, 164, 165, 170, 171L, 172, 173, 180, 181, 182, 183

EMPLOYMENT OPPORTUNITY:

Vocational Nurse

Certificates of Achievement:

HOME HEALTH AIDE

REQUIRED COURSES: NRS 102

EMPLOYMENT OPPORTUNITY:

Home Health Aide

NURSE ASSISTANT

REQUIRED COURSES: NRS 101

EMPLOYMENT OPPORTUNITY:

Certified Nurse Assistant

Acute Care Nurse Aide

Nursing Courses

NRS 100 Introduction to Health Occupations (3)

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 Credit/No Credit grading only. 36 lecture hours, 54 lab hours.

NRS 101 Nurse Assistant (5)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Provision of basic nursing care to residents in a long-term care facility. Upon successful completion of this course, students become eligible to sit for the nurse assistant competency exam for certification. 54 hours lecture/theory 108 hours lab/clinical

NRS 102 Home Health Aide (2)

Corequisite: NRS 101.

Preparation of individuals to provide safe and proper nursing care and home care services to the elderly, ill, and infirm. 56 hour course (includes 27 hours in an extended care facility).

NRS 157 Medical Terminology - Spanish (2)

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.

NRS 250 Basic Critical Care Nursing (3)

This critical care course is designed to provide the learning experiences which will enable the nurse to acquire basic critical care skills and related knowledge necessary for the safe care of the critically ill adult. Should be a licensed vocational nurse or have completed a vocational nurse program. 54 lecture hours.

NRS 260 Drugs and Solutions (3)

A review of basic mathematics, drug formula calculations, and updated drug information. 54 lecture hours.

NRS 263 Nursing Supervision (3)

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.

Vocational Nursing Courses

VNRS 150 Fundamentals of Nursing (3)

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 procedure, 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)

Prerequisite: NRS 100.

Corequisites: VNRS 150, 152, 153, 154, and 155.

Clinical application of theoretical concepts of basic nursing functions. Offered for Credit/No Credit grading only. 162 lab hours over the span of 8 weeks.

VNRS 152 Pharmacology I (1)

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)

Prerequisite: NRS 100.

Corequisites: VNRS 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 and Function for the Vocational Nurse I (1.5)

Prerequisite: NRS 100. *Corequisites:* VNRS 151L, 152, 153, and 155.

Vocational nursing students will explore the basic facts of human anatomy and the principals of physiology with selected clinical examples. 27 lab hours.

VNRS 155 Social-Psychology for the Vocational Nurse (1)

Prerequisite: NRS 100. *Corequisites:* VNRS 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)

Prerequisites: VNRS 150 series.

Corequisites: VNRS 161L, 162, 163, 164L 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)

Prerequisite: VNRS 150 series.

Corequisites: VNRS 160, 162, 163, 164 and 165.

Clinical application or theoretical concepts of nursing care for clients with illness and/or injury of the musculoskeletal, integumentary, and gastrointestinal systems. Offered for Credit/No Credit grading only. 162 lab hours over the span of 8 weeks.

VNRS 162 Pharmacology II (1)

Prerequisite: VNRS 150 series.

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)

Prerequisites: NRS 100, VNRS 150, 155 series.

Corequisites: VNRS 160, 161L, 162, 164, 165,

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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 NRS 153. 18 lecture hours.

VNRS 164 Body Structure and Function for the Vocational Nurse II (1.5)

Prerequisite: VNRS 150 series.

Corequisites: VNRS 160, 161L, 162, 163, 165.

A continuation of body structure and function for the vocational nurse with clinical case studies. 27 lecture hours.

VNRS 165 Growth and Development: Young Adult - Elderly (1)

Prerequisites: NRS 100, 150 series.

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)

Prerequisite: VNRS 160 series.

Corequisite: VNRS 171L.

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)

Prerequisite: VNRS 160 series.

Corequisite: VNRS 170 series.

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 Credit/No Credit grading only. 378 lab hours.

VNRS 172 Advanced Pharmacology (2)

Prerequisite: VNRS 160 series.

Corequisite: VNRS 171L.

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)

Prerequisite: VNRS 160 series.

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)

Prerequisite: VNRS 160 series.

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. This course may be taken two times. 36 lecture hours, 90 lab hours.

VNRS 181 Growth and Development: Infancy-Adolescence (1)

Prerequisite: VNRS 160 series.

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)

Prerequisite: VNRS 160 series.

This course covers obstetrical and gynecological conditions of the female patient, with clinical experience in a local community hospital. This course may be taken two times. 36 lecture hours, 126 lab hours.

VNRS 183 Leadership in Nursing (3)

Prerequisites: VNRS 160 series.

Corequisite: VNRS 171L.

Teaches advanced nursing students the theory needed to perform skills and procedures used by nursing team

leaders in a clinical setting. 36 lecture hours, 54 lab hours.

Registered Nursing Courses

RNRS 190 Foundations of Nursing (4)

Prerequisites: BIOL 200, 201 and 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.

RNRS 191 Intro to Medical/Surgical Nursing I (4) (Cr/Nc)

Prerequisites: BIOL 200, 201 and 220 or equivalents and admission to the ADN Program.

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 relate to the adult patient in the Medical-Surgical environment. 36 lecture hours, 108 lab hours.

RNRS 192 Pharmacology for Nurses (2) (Cr/Nc)

Prerequisites: BIOL 200, 201 and 220 or equivalents and admission to the ADN 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.

RNRS 193 Pediatric Nursing (3.5)

Prerequisites: RNRS 190, 191 and 192.

Corequisites: RNRS 194 and 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 developmental 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.

RNRS 194 Obstetrics/Maternity Nursing (3.5)

Prerequisites: RNRS 190, 191 and 192.

Corequisites: RNRS 193 and 195.

This course will enable the student to attain knowledge and skills necessary to provide safe, effective, culturally sensitive physiological and psychosocial care using the nursing process and family centered approach for child-bearing clients and their families. Clinical experiences will provide opportunities for students to participate in therapeutic activities during ante partum, intrapartum, and postpartum periods; as well as the care and monitoring of the newborn. 36 lecture hours, 81 lab hours.

RNRS 195 Beginning Medical/Surgical Nursing II (5)

Prerequisite: RNRS 190, 191, 192, 193.

Medical Surgical Nursing II develops the first year nursing students 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.

RNRS 200 Role Transition: LVN to RN (3)

Prerequisite: Enrollment in RNRS 200 is provisional pending state approval of an Associate Degree Nursing program; formal acceptance by the Department of Health Sciences; a minimum of one year licensure in California as a Licensed Vocational Nurse; and 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, criti-

cal 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.

RNRS 201 Medical-Surgical Nursing III (5)

Successful completion of M/S II 195 series SLOs; OR current standing as a LVN in California AND the successful completion of RNRS 200 (Role transition: LVN to RN).

Corequisite: RNRS 203.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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)

Prerequisites: Successful completion of M/S II 195 series SLOs; OR current standing as a LVN in California AND the successful completion of RNRS 200 SLOs.

Corequisite: RNRS 201.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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 promoting, 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)

Prerequisites: RNRS 201, 203.

Corequisite: 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. 45 lecture hours, 189 lab hours.

RNRS 252 Leadership for Professional Nursing Practice (2)

Prerequisites: NRS 201 and RNRS 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)

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.

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 PowerPoint.

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 industry sectors, professional organizations and businesses to ensure relevant training.

Certificates of Achievement:**ADMINISTRATIVE OFFICE MANAGER**

REQUIRED COURSES: ACCT 100 or 101; ACCT 120 or OFF 120; BUS 130, 132; BUS 150 or 152, BUS 160, 176; OFF 101, 201, 291, 294

OFFICE OCCUPATIONS

REQUIRED COURSES: ACCT 100 or 101; BUS 132; OFF 101, 201, 215, 260, 281, 291

SECRETARIAL

REQUIRED COURSES: BUS 130, 150, 152, 176; OFF 101, 201, 260, 281, 291

WORD PROCESSING

REQUIRED COURSES: OFF 120; BUS 132, 150, 152, 176; OFF 215, 260, 281, 291, 294

**Office Technology Courses
(See Also Accounting, Business
and Real Estate)**

OFF 057 Computer Keyboarding (1) (Cr/Nc)

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) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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 lecture hours, 36 lab hours. CSU

OFF 120 Excel Spreadsheet (2) (Cr/Nc)

An introduction to Excel worksheets and workbooks. Include formatting, calculating sums, formulas, charts, enhancing the worksheet, and making decisions using the IF function, completing financial functions, data lists, and large workbooks using templates. 36 lecture hours. CSU

OFF 154 Professional Development Interpersonal Skills (1) (Cr/Nc)

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, teambuilding, and handling conflict. 18 lecture hours.

OFF 155 Professional Development Series Business Etiquette and Protocol (1) (Cr/Nc)

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 Series: Team Dynamics (1) (Cr/Nc)

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 Series: Customer Relations and Rapport (1) (Cr/Nc)

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 Series: Leadership in Organizations (1) (Cr/Nc)

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) (Cr/Nc)

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 Series: Professional Image (1) (Cr/Nc)

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 Series: Interview Styles & Strategies (1) (Cr/Nc)

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. 18 lecture hours.

OFF 201 Introduction to Electronic Commerce for Business (2) (Cr/Nc)

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. 36 lecture hours, 18 lab hours.

OFF 215 Introduction to Microsoft Outlook (2) (Cr/Nc)

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, 18 lab hours.

OFF 260 Computer Keyboarding and Document Processing (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
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) (Cr/Nc)

An overview of records management which involves practical fundamentals of records management, basic filing principles, procedures, and systems. Emphasis is 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)

An introduction to telecommunications media for the office. Includes using and managing electronic mail, using electronic bulletin 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) (Cr/Nc)

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.

Philosophy

(Social Sciences Department)

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.

Philosophy Courses

PHIL 101 Great Religions of the World (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The historical development, principal ideas and contributions of the world's religions. 54 lecture hours. CSU;UC

PHIL 106 Introduction to Philosophy (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The foundations of philosophy in terms of modes of critical thinking, significant philosophical problems, and a representative sampling of primary philosophical writings. 54 lecture hours. CSU;UC

PHIL 106H Introduction to Philosophy - Honors (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A critical examination of fundamental concepts such as: religion; morality; mind and body; causality and free will; objectivity and subjectivity; life and death. This is a degree-applicable, introductory level course for honors students. Students are expected to work and participate at an honors level, which includes strong critical thinking skills, thorough analysis of philosophical writings, and presentation skills as demonstrated by leading a seminar discussion. 54 lecture hours. CSU;UC

PHIL 108 Philosophy-Ethics (3)

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. 54 lecture hours. CSU;UC

PHIL 109 Critical Reasoning and Writing (3) (Cr/Nc)

Strongly recommended: ENGL 101.

A study of, and instruction in, the application of critical reasoning and writing skills, in the composition and evaluation of the argumentative/persuasive essay. The course will emphasize the application of argumentative methods and models to the critical analysis of contemporary moral, socio-political, and philosophical issues, as well as topics in traditional logic. 54 lecture hours. CSU;UC

PHIL 110 Philosophy - Logic (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course introducing fundamental problems and principles of formal and informal logic, featuring proofs of validity deductive and inductive reasoning, and detection and analysis of fallacies. 54 lecture hours. CSU;UC

Photography

(Fine and Performing Arts Department)

Certificates of Achievement:**PHOTOGRAPHY**

REQUIRED COURSES: PHTO 101, 102, 103, 215
ELECTIVES: Plus Three of the following: PHTO 125, 126, 202, 205, 206;

EMPLOYMENT OPPORTUNITY:

Entry-Level Photography Technician,
Salesperson, self employment

Photography Courses**PHTO 101 Basic Photography (3) (Cr/Nc)**

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. 36 lecture hours, 90 lab hours. CSU;UC

PHTO 102 Intermediate Photography (3) (Cr/Nc)

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) (Cr/Nc)

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 110 Photography Lab (1) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: PHTO 101.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Presents a background in the use of graphic arts processes and materials as well as photo techniques currently used by photographers, commercial artists, fashion illustrators, cinematographers, and graphic designers. 36 lecture hours, 54 lab hours. CSU;UC

PHTO 126 Advanced Photography as an Art Medium (3) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: PHTO 101.

Covers 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)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Articulates the principles of individual lighting and group

posing in a variety of outside locations as they apply to professional photography. 54 lecture hours, 36 lab hours. CSU

PHTO 213 Studio Portraiture (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Articulates the principles of portrait lighting and posing, inside and outside the studio as they apply to professional photography. 54 lecture hours, 36 lab hours.

PHTO 215 Electronic Photo Imaging (3) (Cr/Nc)

Strongly recommended: PHOTO 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) (Cr/Nc)**

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 volunteer employment or training sites. This course may be taken four times. 60 lab hours arranged per semester.

PHTO 698B Cooperative Education (2) (Cr/Nc)

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 volunteer employment or training sites. This course may be taken four times. 120 lab hours arranged per semester.

PHTO 698C Cooperative Education (3) (Cr/Nc)

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 volunteer employment or training sites. This course may be taken four times. 180 lab hours arranged per semester.

PHTO 698D Cooperative Education (4) (Cr/Nc)

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 volunteer employment or training sites. This course may be taken four times. 240 lab hours arranged per semester.

PHTO 699A Cooperative Education (1) (Cr/Nc)

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. This course may be taken four times. 75 lab hours arranged per semester.

PHTO 699B Cooperative Education (2) (Cr/Nc)

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. This course may be taken four times. 150 lab hours arranged per semester.

PHTO 699C Cooperative Education (3) (Cr/Nc)

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. This course may be taken four times. 225 lab hours arranged per semester.

PHTO 699D Cooperative Education (4) (Cr/Nc)

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. This course may be taken four times. 300 lab hours arranged per semester.

Physical Education

(Health, Physical Education, and Athletics Department)

(See Also Dance)

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.
4. To provide a competitive experience through varsity sports for those students exhibiting exceptional physical talent.

Aquatic Courses

PE 141 Lifeguard Training (1)

Swim 500 yards using the front crawl, breaststroke, and sidestroke. Surface dive to 7 feet Tread water for 2 minutes using legs only.

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)

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. This course may be taken two times. 18 lecture hours, 18 lab hours. CSU;UC

PE 143 Swimming-Intermediate/Advanced (1)

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 (1)

This course provides an opportunity for the student to qualify for the American Red Cross Safety Instructor Certificate of Achievement. The class is designed to teach the student how to teach swimming on all levels as well as basic and advanced life saving. This class does not meet the requirements for P.E. activity classes. 18 lecture hours, 18 lab hours. CSU;UC

Competitive Athletics Courses

Citrus College participates in varsity athletic competition with other community colleges. Nine men's sports and nine women's sports are offered for participation. Student must demonstrate advanced level skills through an audition process.

Athletic Eligibility

To be eligible for intercollegiate athletics, a student must be a member of the Associated Student Body, be enrolled in 12 units of course work, and maintain a G.P.A. of 2.0.

A physical examination is required of all athletes prior to training for or participation in intercollegiate competition.

An athlete must be prepared to spend a minimum of 10 hours per week in the activity for two units of credit. Questions concerning athletic eligibility should be referred to the Director of Athletics.

PE 207 Off-Season Men's Varsity Athletics (.5) or (1) (Cr/Nc)

Prerequisite: Must be a college varsity athlete/college varsity prospect or with coach's permission.

This course provides intermediate and advanced instruction and practice in the skills and strategies of varsity athletics. 45 or 90 lab hours. CSU;UC

PE 208 Off-Season Women's Varsity Athletics (.5) or (1) (Cr/Nc)

Prerequisite: Must be a college varsity athlete/college varsity prospect or with coach's permission.

This course provides intermediate and advanced instruction and practice in the skills and strategies of varsity athletics. 45 or 90 lab hours. CSU;UC

PE 209 Women's Varsity Soccer (2) (Cr/Nc)

Strongly recommended: Advanced Soccer skills to participate in a competitive collegiate experience.

Intercollegiate competition in women's varsity soccer. This course may be taken four times. 180 lab hours. CSU;UC

PE 210 Women's Varsity Tennis (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 211 Women's Varsity Volleyball (2) (Cr/Nc)

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. 180 Lab Hours. CSU;UC

PE 212 Women's Varsity Swimming (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 213 Women's Varsity Basketball (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 214 Women's Varsity Softball (2) (Cr/Nc)

Strongly recommended: Advance 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. 180 lab hours. CSU;UC

PE 215 Women's Varsity Track and Field (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 216 Women's Varsity Cross Country (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 220 Men's Varsity Football (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 221 Men's Varsity Basketball (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 222 Men's Varsity Track and Field (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 223 Men's Varsity Tennis (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 224 Men's Varsity Baseball (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 225 Men's Varsity Golf (2) (Cr/Nc)

Strongly recommended: Advanced golf skills to participate in a competitive collegiate program.

Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 180 lab hours. CSU;UC

PE 226 Men's Varsity Cross Country (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 227 Women's Varsity Golf (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 228 Men's Varsity Swimming (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 229 Men's Varsity Water Polo (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 230 Women's Varsity Water Polo (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

PE 231 Men's Varsity Soccer (2) (Cr/Nc)

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. 180 lab hours. CSU;UC

Fitness Courses

PE 145 Strength Training, Balance and Agility (1) (Cr/Nc)

Designed to introduce students to proprioceptive training. Proprioceptive training can improve balance, core strength, quickness, and agility and reduce the risk of injury. This type of training can benefit all movements performed in our daily life, not just those dealing with sports or athletic movements. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC

PE 146 Water Exercise (1) (Cr/Nc)

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) (Cr/Nc)

This course will emphasize swimming for health and physical fitness. The class is designed to decrease the risk of coronary heart disorders by increasing heart efficiency, vital lung capacity, and the knowledge of each through the use of aerobic and anaerobic conditioning. Participating adults and others seeking a fitness program may expect to improve their overall fitness level through aquatic training. This course may be taken four times. 9 lecture hours, 27 lab hours. CSU;UC

PE 148 Adapted Aquatic Exercises (1) (Cr/Nc)

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 instructors permission. 18 lecture hours, 36 lab hours. CSU;UC

PE 150 Adapted Physical Education (1) (Cr/Nc)

A medical doctor's written prescription of 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 instructors permission. 18 lecture hours, 36 lab hours CSU;UC

PE 151 Body Conditioning (1) (Cr/Nc)

This course will include general conditioning exercises, aerobic exercises, floor exercises, exercises using free and stationary weights and exercises to develop flexibility and strength. This course may be taken four times with the objective of increasing and expanding the students' proficiencies and attitudes toward body conditioning through a supervised exercise program. This class may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC

PE 152 Weight Training (1) (Cr/Nc)

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 pre-

viously 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) (Cr/Nc)

An exercise program that consists of cardiovascular activity alternately at a slow to moderate pace. This program is designed to build 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) (Cr/Nc)

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 156 Physical Conditioning for Intercollegiate Sports (1) to (2) (Cr/Nc)

Must be a varsity college athlete/ varsity college prospect or with coaches permission.

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 hours lecture, 27 hours lab or 18 hours lecture, 54 hours lab. CSU;UC

PE 159 Cardiovascular Training (1) (Cr/Nc)

This course will offer a non-competitive, flexibly scheduled environment in which the student can develop a total fitness program. This program will promote areas of strength, flexibility and cardiovascular endurance. A philosophy of Fitness for Life 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 lecture hours, 27 lab hours. CSU;UC

Individual Activities Courses**PE 101 Badminton (1) (Cr/Nc)**

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

PE 102 Bowling (1) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

PE 103 Golf (1) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

PE 104 Self-Defense (1) (Cr/Nc)

The theory and techniques of self-defense. Content focuses on methods of recognizing and avoiding dangers plus skills and strategies of employing physical defense when necessary. This class may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC

PE 106 Racquetball (1) (Cr/Nc)

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. 18 hours lecture hours, 18 lab hours. CSUS;UC*

PE 108 Tennis (1) (Cr/Nc)

Instruction will be concerned with individual growth in fundamentals and techniques 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. 18 lecture hours, 18 lab hours. CSU;UC*

PE 110 Shao-lin Kung Fu (1) (Cr/Nc)

Instruction in traditional Shao-lin long-fist 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 four times. 18 lecture hours, 18 lab hours. CSU;UC

PE 112 Tai Chi Chuan (1) (Cr/Nc)

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

PE 115 Snowboarding (1) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

PE 116 Yoga (1) (Cr/Nc)

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

Intramural Team Activities Courses

PE 130 Basketball (1) (Cr/Nc)

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

PE 132 Football (1) (Cr/Nc)

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

PE 133 Soccer (1) (Cr/Nc)

Course 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

PE 134 Softball (1) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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

PE 135 Volleyball (1) (Cr/Nc)

Development of skills necessary to participate in a game of volleyball. 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*

E 136 Water Polo (1) (Cr/Nc)

Basic instruction will be given in the fundamental skills of water polo. Instruction will emphasize passing, shooting, dribbling, conditioning, game strategy, and terminol-

ogy. The course will include aquatic drills, scrimmages, and appropriate learning activities for the intermediate and advanced swimmer. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU;UC

Theory and Professional Preparation Courses

Physical education theory courses are designed for the student who wishes to go into the field of teaching physical education, coaching or recreation. Most of the courses offered correspond to the undergraduate requirements for majors at a four-year institution.

PE 169 Introduction to Coaching (3) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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 in the future. 54 lecture hours. CSU;UC

PE 171H Honors Health Science (3) (Cr/Nc)

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 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 demonstrated through class participation/presentation during the investigation of health/ fitness topics. 54 lecture hours. CSU;UC

PE 172 Introduction to Physical Education (3)

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 sport. The objectives are to define and investigate the importance of modern physical education with a view toward developing of a basic philosophy and background for professional education. 54 lecture hours. CSU;UC

PE 173 Nutrition for Fitness (3)

This course is designed to provide knowledge about the basic principles of nutrition and to study the role nutrition plays in health promotion. 54 lecture hours. CSU;UC

PE 174 Introduction to Team Sports (3) (Cr/Nc)

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, volleyball, soccer, badminton, tennis, swimming, water polo and track. 54 lecture hours. CSU;UC

PE 175 Introduction to Individual and Dual Sports (3)

(Cr/Nc) *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: aerobics, 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)

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

PE 177 First Aid - Responding to Emergencies (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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 178 Sports Officiating - Fall Sports I (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course in officiating men's football, basketball and water polo. 36 lecture hours. CSU;UC

PE 179 Sports Officiating - Spring Sports I (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course in officiating the sports of baseball, track and field, and swimming. 36 lecture hours. CSU;UC

PE 182 Care and Prevention (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Develop the knowledge and skills necessary to both play and teach the game of women's basketball. It will include theory and how to organize, administer, coach and play in a successful women's program. 18 lecture hours, 72 lab hours.

PE 184 Volleyball Theory (2) (Cr/Nc)

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) (Cr/Nc)

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 Baseball Theory (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course prepares the student to administer a baseball program. It will include teaching methods, practice organization, administration, scouting and live game strategy. 36 lecture hours. CSU;UC

PE 187 Techniques and Strategy of Intercollegiate Football (2) (Cr/Nc)

A practical study of game techniques and strategy used

in intercollegiate football, including techniques of offensive and defensive play. 36 lecture hours. CSU;UC

PE 188 Basketball Theory (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Development of game techniques and strategy used in intercollegiate basketball. The course will also include teaching methods, practice organization, scouting and administration. 36 lecture hours. CSU;UC

PE 189 Advanced Basketball Theory (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Development of the techniques and strategy involved in the job of coaching intercollegiate basketball. This course includes on-the-floor teaching and critiques of various coaching methods during actual game situations, clinic attendance, scouting and administrative duties. 18 lecture hours, 72 lab hours. CSU;UC

PE 190 Water Polo Theory and Techniques (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A development of the theory and fundamental techniques used in the game of water polo. 18 lecture hours, 54 lab hours. CSU;UC

PE 191 Theory of Intercollegiate Golf (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The course is designed to further the development of techniques and strategy of match and medal play for the serious intercollegiate golfer interested in competition. Understanding the proper use of technical golf rules and social courtesies in competitive play. 18 lecture hours, 54 lab hours. CSU;UC

PE 192 Aquatic Theory and Techniques (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Content focuses on the biomechanical and technical analysis of intercollegiate swimming and diving. 36 lecture hours. CSU;UC

PE 193 Track and Field Theory and Techniques (2) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course prepares the student to administer a track and field program. It will include teaching methods, practice organization, administration and officiating at

track and field meets. 36 lecture hours. CSU;UC

Physics

(Physical Sciences and Engineering 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)

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)

Prerequisite: MATH 130.

Corequisites: 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)

Strongly recommended: 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. The labora-

tory provides the student with expanded first-hand experience in specific areas of course content. 54 lecture hours, 72 lab hours. CSU;UC

PHYS 111 General Physics (4)

Prerequisite: MATH 151. 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 the calculus are used to derive and solve some problems. 54 lecture hours, 54 lab hours. CSU;UC

PHYS 112 General Physics (4)

Prerequisite: 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 the calculus are used to derive and solve same problems. 54 lecture hours, 54 lab hours. CSU;UC

PHYS 201 Physics (5)

Corequisite: MATH 190.

Mechanics and wave motion. Required of all majors in engineering, physics, chemistry, and some geology and mathematics majors. 72 lecture hours, 54 lab hours. CSU;UC

PHYS 202 Physics (5)

Prerequisites: PHYS 201 and MATH 190.

Corequisite: MATH 191.

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)

Prerequisites: PHYS 201 and MATH 190.

Corequisite: MATH 191.

Heat, light, and modern physics. Required of majors in engineering, physics, chemistry, and some geology majors. 72 lecture hours, 54 lab hours. CSU;UC

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

POLI 103 Government of United States (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course deals with the origins and functions of the government of the United States with special emphasis on the background and causes of present problems. It meets the United States Constitution graduation requirement and includes local and state government. 54 lecture hours. CSU;UC

POLI 103H Government of United States (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course deals with the origins and functions of the government of the United States with special emphasis on the background and causes of present problems. It meets the United States Constitution graduation requirement and includes local and state government. Students are expected to work and participate at an honors level which includes strong critical thinking skills, thorough analysis of political science readings, presentation, and leadership skills demonstrated through class participation/presentation and service learning in the community. 54 lecture hours. CSU;UC

POLI 104 Introduction to Political Science (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introduction to the principles and practices of government. Political theories and contemporary ideologies; nature of the state; constitution and law; public opinion; mass media; the nature of foreign policy and international politics. 54 lecture hours. CSU;UC

POLI 105 Comparative Politics (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introductory course to acquaint students with the types of governmental systems which people establish in their various localities around the world and the compet-

ing values that tend to result in conflicts between opposing groups of people. An in-depth analysis of contending political ideologies, electoral procedures, and governing institutions is the course's main focus. This course is structured to provide a regional and comparative approach to the study of politics at the global level. 54 lecture hours. CSU;UC

POLI 110 Current American Political Affairs (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A review and study of the major political issues of the day, and their relationship to the institutions of American Government. Among the important topics considered: law and order, the news media, war and peace, civil rights, confidence in government, and racial and cultural minorities. 54 lecture hours. CSU;UC

POLI 111 Introduction to Public Policy (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The course explores how federal, state, and local public policy controls the behavior of people in the United States. The exploration identifies reasons for behavior and links behavior to social consequences. Also, the exploration connects public policy to laws, government programs, business and non-profit organizations, and the quality of life in the United States. 54 lecture hours. CSU

POLI 116 Contemporary World Politics (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An examination of basic theories of international relations and their relevance to contemporary world politics. 54 lecture hours. CSU;UC

POLI 118 Contemporary Law and Legal Issues (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A general survey course that examines the fundamental elements of criminal law, intentional torts, negligence, wills and trust law, with a focus on the leading legal issues facing contemporary society. 54 lecture hours. CSU

Psychology

(Behavioral Sciences Department)

Psychology Courses

PSY 101 Introduction to Psychology (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introduction to the field of psychology through involved learning, motivation, intelligence, and personality. 54 lecture hours. CSU;UC

PSY 102 Psychobiology (3) (Cr/Nc)

Prerequisite: PSY 101.

Strongly recommended: BIO 104, 105.

Study of the effects of biology upon behavior, the relationship between psychological processes and the nervous system, muscular, and glandular features of the response mechanism, and the structure and functions of the sense organs. 54 lecture hours. CSU;UC

PSY 103 Elementary Statistics (3)

Strongly recommended: Math 150. Also, READ 099 if required by reading placement exam or if required by reading level.

An elementary course in basic statistical concepts designed especially for students in the social science area. The development of basic skills in descriptive statistics and inferential statistics is stressed. Reliability and validity problems when generalizing from samples to population will be considered. 54 lecture hours. CSU

PSY 110 Psychology of Religion I (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

This course explores the connection between psychology and religion. It focuses 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)

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)

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)

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 the Behavioral Sciences (3) (Cr/Nc)

Prerequisite: PSY 101 and MATH 165.

Strongly recommended: READ 099 if required by reading placement exam or if required 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 and non-experimental research methods in basic and applied research settings. 54 lecture hours.

PSY 205 Developmental Psychology (3)

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)

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, 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 (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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)

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) 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)

Prerequisite: PSY 101.

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)

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)

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)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A bio-cultural 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)

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/Landscape Management

(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.

Certificates of Achievement:**PUBLIC WORKS LEVEL I**

REQUIRED COURSES: PUB 150, 151, 155, 157; MATH 115 or higher plus one of the following: BUS 132, 150 or 152; CSIS 107; PHIL 108; SPCH 100 or 101.

PUBLIC WORKS LEVEL II

REQUIRED COURSES: Public Works Level I Certificate of Achievement plus PUB 160, 164, 166, CSIS 130, plus two of the following classes: BUS 172, 175, 176; SPCH 100 or 101; any Public Works classes.

PUBLIC WORKS/LANDSCAPE MANAGEMENT

REQUIRED COURSES: PUB 150 and PUB 158 plus from Mt. San Antonio College in Walnut – AGOR 1 Horticulture Science and AGOR 39 Turf Management.

EMPLOYMENT OPPORTUNITY:

Public Works employees, street maintenance, traffic control systems, park maintenance.

Public Works Courses**PUB 150 Public Works I (3) (Cr/Nc)**

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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 subgrade 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) (Cr/Nc)

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) (Cr/Nc)

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 (3) (Cr/Nc)

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. CSU;UC

PUB 160 Public Administration (3) (Cr/Nc)

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 new advances in technology. 54 lecture hours.

PUB 161 California Occupational Safety and Health (3) (Cr/Nc)

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) (Cr/Nc)

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. CSU;UC

PUB 164 Plan Interpretation and Cost Estimating (3) (Cr/Nc)

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 166 Supervision in Public Works (3) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: Placement is based on multiple assessment measures.

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 Credit/No Credit grading

only. This course may be taken two times. 54 lecture hours. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

READ 040 Basic Reading Skills (3) (Cr/Nc)

Prerequisite: READ 019 or placement based on multiple assessment measures.

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. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

READ 099 Reading Skills (3) (Cr/Nc)

Prerequisite: 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 their critical reading/thinking skills. This course meets the graduation reading competency requirement. 54 lecture hours. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

READ 120 College Reading (3) (Cr/Nc)

Prerequisite: READ 099 or placement based on multiple assessment measures.

This course is designed to develop students' literal, interpretive, and critical comprehension; expand their vocabulary; increase their reading speed; and improve their study skills. 54 lecture hours. CSU

READ 121 Advanced College Reading (3) (Cr/Nc)

Prerequisite: READ 099 or placement based on multiple assessment measures.

An advanced reading course designed to improve students' critical reading and thinking skills, increase inferential and evaluative comprehension, expand vocabulary skills, and employ effective study strategies for use in disciplines such as social sciences, sciences, behavioral sciences, humanities, mathematics, and technical fields. 54 lecture hours. CSU

READ 122 Speed Reading (3) (Cr/Nc)

Prerequisite: READ 099 or placement based on multiple assessment measures.

This course is a professional speed reading course designed for the advanced readers who want to increase their reading speed and maintain a high level of comprehension. Emphasis on speed reading techniques, flexibility in reading, memory and concentration improvement. 54 lecture hours.

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 work 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)

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)

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)

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, 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. 54 lecture hours. CSU

REAL 216 Legal Aspects of Estate Practice (3)

Prerequisite: REAL 210.

An introductory course designed to acquaint the student with the legal aspects and current laws pertaining to real estate. This course is 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.

Certificates of Achievement:

AUDIO RECORDING/TECHNOLOGY

REQUIRED COURSES: REC 105, 115, 125, 135, 145, 205, 215, 225, 235, 245

Recording Technology Courses

REC 100 Survey of Entertainment Technology (4)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A survey of current technology used in the entertainment industry for the production of audio/video products: mixing boards, special effects processors, computer programs, and related devices. This course may be taken four times. 72 lecture hours per week.

REC 103 Introduction to Audio Engineering (4)

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)

Prerequisites: REC 100, 103, 140.

This course is an introduction to Audio Technology. Units include sound characteristics signaled flow, basic recording console functions, microphone types, and techniques, signal processing, equalization, and mixing techniques. 54 lecture hours, 72 lab hours.

REC 115 Recording Studio Workshop I (4) (Cr/Nc)

Prerequisites: REC 100, 103, 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 MIDI, Computers, and Music (3) (Cr/Nc)

Prerequisite: Successful completion of REC 100, ELEC 100, and MUS 112 or have passed a Multiple Measures Skills assessment.

Corequisite: REC 105, 115, 135, and 145.

Strongly recommended: SPCH 100.

The study and implementation of MIDI and digital sampling technology in the audio recording industry. Included is the examination of proprietary music software/hardware and its application in current use within the recording industry. 54 lecture hours.

REC 135 Live Sound Reinforcement (4) (Cr/Nc)

Corequisite: 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) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: Successful completion of REC 100, ELEC 100, and MUS 112 or have passed a Multiple Measures Skills assessment.

Corequisite: REC 105, 115, 125, and 135.

Strongly recommended: SPCH 100.

A course in aural skills development for recording engineers. This class will focus on various types of 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) (Cr/Nc)

Prerequisite: REC 100 or have passed a Multiple Measures Skills assessment.

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) (Cr/Nc)

Prerequisite: REC 100 or have passed a Multiple Measures Skills assessment.

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) (Cr/Nc)

Prerequisite: REC 100 or have passed a Multiple Measures Skills assessment.

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 (3) (Cr/Nc)

Prerequisite: Successful completion of REC 105, 115, 125, 135, and 145.

Corequisite: REC 215, 225, 235, and 245.

This course is an advanced study of new technologies and techniques, both analog and digital. Includes advanced multi-track recording, editing and mixing techniques, and surround mixing techniques for audio post-production. 54 lecture hours, 72 lab hours arranged.

REC 215 Recording Studio Workshop II (4) (Cr/Nc)

Prerequisite: Successful completion of REC 105, 115, 125, 135, and 145.

Corequisite: REC 205, 225, 235, and 245.

This is a project based course. Projects will include audio for picture, surround mixing, CD and DVD-A mastering techniques, and studio/equipment maintenance. 54 lecture hours, 72 lab hours arranged.

REC 225 Digital Audio Technology (4) (Cr/Nc)

Prerequisites: REC 105, 115, 125, 135 and 145.

Corequisites: REC 205, 215, 235 and 245.

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 arranged.

REC 235 Acoustics for Engineers (3) (Cr/Nc)

Prerequisites: REC 105, 115, 125 and 135 and 145.

Corequisites: REC 205, 215, 225 and 245.

The course will study the physics of acoustics and studio design. Includes information on the reaction of sound to surfaces, materials, objects, time delays and the study of psychoacoustics. 54 lecture hours.

REC 245 Music Business/Audio Careers (3) (Cr/Nc)

Prerequisites: REC 105, 115, 125, 135 and 145.

Corequisites: REC 205, 215, 225 and 235.

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)

Prerequisite: REC 135.

Strongly recommended: READ 099 if required by reading placement exam 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 hours lecture, 72 hours lab arranged.

REC 260 Recording Studio Workshop IV (3) (Cr/Nc)

Prerequisite: REC 100 or have passed a Multiple Measures Skills assessment.

Topics include final production techniques, digital recording and computerized audio production, and CD

mastering techniques. 18 lecture hours, 108 lab hours.

REC 266 Introduction to Live Sound Production (4)

Prerequisite: ELEC 100.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

An introductory course in live show production fundamentals. Units include the history and development of live sound and show technology, fundamentals of live sound production, sound theory and practice, comparative analyses of show systems: hardware and components, production techniques personnel, terminology and technology. 72 lecture hours.

REC 270 Producing for Recording Engineers (3)

Prerequisite: REC or have passed a Multiple Measures Skills assessment.

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.

Sociology

(Behavioral Sciences Department)

Sociology Courses

SOC 114 Marriage, Family, and Intimate Relations (3)

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

SOC 118 Minorities in America (3)

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 among these groups and the dominant culture. 54 lecture hours. CSU;UC

SOC 122 Introduction to Latino Studies (3)

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 psychologi-

cal, social, political, and economic heritage of the Latino. Emphasis on examination of how ethnic groups are organized, and how they influence others and in turn are influenced. 54 lecture hours. CSU;UC

SOC 201 Introduction to Sociology (3)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Emphasis is placed on the study of the basic structure of human society, the main forces that hold groups together or weaken them, as well as conditions that transform social life, and basic social concepts. 54 hours. CSU;UC

SOC 201H Introduction to Sociology (3)

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. Emphasis is placed on the study of the basic structure of human society, the main forces that hold groups together or weaken them, as well as 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, thorough 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)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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. College level reading is strongly recommended for success in the course. 54 lecture hours. CSU;UC

SOC 203 Criminology (3) (Cr/Nc)

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

SOC 216 Sex and Gender in a Cross Cultural Perspective (3)

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 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. 54 lecture hours. CSU;UC

SOC 218H Honors Presentation Seminar (0.5)

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

Social Sciences

(Social Sciences Department)

Social Sciences Courses**SOCS 100 Principles of Leadership (3) (Cr/Nc)**

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) (Cr/Nc)

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)

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, 54 lab hours. CSU

Spanish

(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, 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) (Cr/Nc)**

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. CSU;UC

SPAN 102 Spanish II (5) (Cr/Nc)

Prerequisite: SPAN 101 or two years of high school Spanish.

A further study of elementary Spanish grammar and vocabulary that develops understanding, speaking, reading and writing (including spelling) skills. Affords opportunities to apply communication skills to new social, professional, and travel contexts. Explores the cultural heritage and civilization of Spain and Latin America through technology and level-appropriate readings. The class will be taught primarily in Spanish. 90 lecture hours, 18 lab hours. CSU;UC

SPAN 127 Spanish Civilization (3) (Cr/Nc)

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. Offered for Credit/No Credit or letter grade. 54 lecture hours. CSU

SPAN 140 Beginning Conversational Spanish (3) (Cr/Nc)

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) (Cr/Nc)

Prerequisite: SPAN 102: Spanish II 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) (Cr/Nc)

SPAN 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 a practical, working knowledge of Spanish with a vocabulary suitable to the student's areas of specialization. 54 lecture hours. CSU

SPAN 201 Spanish III (5) (Cr/Nc)

Prerequisite: SPAN 102 or three years of high school Spanish.

A course that introduces intermediate level Spanish curriculum by presenting more advanced, 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. 90 lecture hours, 18 lab hours. CSU;UC

SPAN 202 Spanish IV (5) (Cr/Nc)

Prerequisite: SPAN 201 or four years of high school Spanish.

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) (Cr/Nc)

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) (Cr/Nc)

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

SPAN 298 Spanish V (3) (Cr/Nc)

Prerequisites: SPAN 202, 210 or 211 or four years of high school Spanish.

This course presents a broad introduction to the major authors, themes, and ideas in Spanish Peninsular literature from medieval times to the present. Emphasis on the important literary movements, as well as the various historical, philosophical, and cultural influences that have determined and influenced the creative course of Peninsular literature. 54 lecture hours. CSU;UC

SPAN 299 Spanish VI (3) (Cr/Nc)

Prerequisite: SPAN 202 or four years of high school Spanish.

This course presents a broad introduction to the major authors, themes, and ideas in Latin American literature from pre-Colombian times to the present. Emphasis on the important literary movements, as well as the various

historical, philosophical, and cultural influences that have determined and influenced the creative course of Latin American literature. 54 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) (Cr/Nc)

Strongly recommended: Read 099 if required by reading placement exam or if required by reading level.

Introduction to interpersonal communication: verbal and nonverbal face-to-face interactions; understanding messages sent and received; awareness and resolutions of communication barriers. 54 lecture hours. CSU

SPCH 101 Public Address (3) (Cr/Nc)

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 (3) (Cr/Nc)

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) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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.

Certificates – Emerging Theatre Technologies

Theatre Arts Courses

THEA 101 Introduction to Theatre Arts (3)

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. CSU;UC

THEA 104 Voice and Movement for the Actor (3) (Cr/Nc)

Strongly recommended: Concurrent enrollment in THEA 201.

A course in vocal anatomy, physiology, and phonetics as well as the exploration of how the voice and body work. Designed to develop the actors 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

THEA 120 Introduction to Technical Theatre (3) (Cr/Nc)

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) (Cr/Nc)

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, costuming or makeup. This course may be taken four times. 18 lecture hours, 90 lab hours. CSU;UC

THEA 130 Introduction to Theatrical Scenery (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Also, THEA 120.

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) (Cr/Nc)

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, 54 lab hours. CSU;UC

THEA 150 Introduction to Intelligent Lighting Systems for Theatre (3)

Strongly recommended: Successful completion of THEA 140, THEA 160 and READ 099.

The study and manipulation of intelligent lighting systems and their use in various aspects of the entertainment field. 36 hours lecture. 54 hours lab arranged. CSU

THEA 160 Computer Aided Design for Theatre (4)

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 Vector works and Sketch-up. This course may be taken three times. 54 lecture hours, 54 lab hours. CSU

THEA 200 Script Analysis - The Art of the Theatre (3) (Cr/Nc)

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 three times. 54 lecture hours. CSU;UC

THEA 201 Acting Fundamentals I (3) (Cr/Nc)

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 hours lecture, 36 hours lab. CSU;UC

THEA 202 Acting Fundamentals II (3) (Cr/Nc)

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 semesters end. This course may be taken four times. 54 hours lecture, 36 hours lab. CSU;UC

THEA 204 Stage and Screenwriting (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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. 54 lecture hours, 18 lab hours. CSU

THEA 210 Rehearsal and Performance (2) (Cr/Nc)

Prerequisite: Audition.

Participation in the production of a full length play for public performance. This course may be taken four times. 144 lab hours. CSU;UC

THEA 211 Acting for the Camera (3) (Cr/Nc)

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 in film and television in contrast to the variance from stage work. Students will address areas of voice and movement for 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. CSU;UC

THEA 220 Rehearsal and Performance (Styles) (2) (Cr/Nc)

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. 144 lab hours. CSU;UC

THEA 241 Fundamentals of Stage Direction (3) (Cr/Nc)

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 hours lecture, 54 hours lab. CSU;UC

THEA 245 Stage Management (3) (Cr/Nc)

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. CSU

THEA 250 Theatre Appreciation (3) (Cr/Nc)

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, 54 lab hours. CSU;UC

THEA 260 Introduction to Show Production Systems (3)

Corequisites: THEA 150 and THEA 245 or by instructor approval.

Strongly recommended: Successful completion of THEA 130, THEA 140, THEA 160, REC 135 and Also, READ 099 if required by reading placement exam or if required by reading level.

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. 54 lecture hours, 36 lab hours. CSU

THEA 284 Acting Shakespeare (3) (Cr/Nc)

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) (Cr/Nc)

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. (This course is taught only during a six week summer session.) 162 lab hours per week. CSU;UC

THEA 292 Special Techniques in Acting (3) (Cr/Nc)

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) (Cr/Nc)

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, including workshops and 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) (Cr/Nc)

Prerequisite: THEA 284.

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Translating the Shakespearean text into an hour long performance adaptation. Students are required to participate in a theatrical production of a Shakespearean play for middle and high school students as well as public performance. In-class and out-of-class rehearsals may be necessary in order to complete production. This course may be taken four times. 54 lecture hours, 36 lab hours. CSU

Cooperative Education Courses

THEA 698A Cooperative Education (1) (Cr/Nc)

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. 60 lab hours arranged per semester.

THEA 698B Cooperative Education (2) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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) (Cr/Nc)

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 T-1, T-2, 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.

Certificate of Achievement:

WATER TECHNOLOGY

REQUIRED COURSES: MATH 115 (or higher) WATR 150, 151, 156, 153 or 157; plus one of the following: BIO 145; BUS 152; CSIS 107, 130; PUB 155, 160, 161; SPCH 101, 106

EMPLOYMENT OPPORTUNITY:

Pumping Station Operator, Water Line Worker, Water Maintenance Mechanic Helper, Water Motor Installer, Water Service Dispatcher, Treatment Plant Operator

Water Technology Courses

WATR 150 Introduction to Water Systems (3) (Cr/Nc)

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 D-1 and D-2 Water Distribution Operators Certificate examinations and the T-1 Water Treatment Operators examination given by the State of California. 54 lecture hours.

WATR 151 Water Resources and Distribution I (3) (Cr/Nc)

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

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 D-2 and D-3 Water Distribution Operator's examinations. 54 lecture hours.

WATR 152 Cross-Connection Control (3) (Cr/Nc)

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) (Cr/Nc)

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 D-3, D-4, and D-5 Water Distribution Operator's examinations. 54 lecture hours.

WATR 155 Water Distribution Operator Exam Preparation (1) (Cr/Nc)

Strongly recommended: WATR 150.

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 156 Water Treatment I (3) (Cr/Nc)

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 T-1, T-2, and T-3 Water Treatment Operator's Certificate examinations given by the State of California. 54 lecture hours.

WATR 157 Water Treatment II (3) (Cr/Nc)

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 T-3, T-4, and T-5 Water Treatment Operator's Certificate examinations required by the State of California. 54 lecture hours.

WATR 165 Water Systems Operations and Technology Update (1) (Cr/Nc)

Strongly recommended: WATR 151 or 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, CDRW, SWRCB, LARWQCB, AQMD, and CalOSHA. The course will be helpful to those in need of contact hours to fulfill California Department of Public Health requirement for renewal of Distribution and/or Treatment Operator's Certificate. 18 lecture hours.

Does Citrus Offer Courses for Growth and Development? Continuing Education

Noncredit Education

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. Enrollment 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, lives and 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.

College Policies and Notices: Rules for Safety and Success

Academic Honesty

See Code of Conduct

Athletic Eligibility

See Athletics: The Fighting Owls section

BP 3550 Drug Free Environment and Drug Prevention Program

References: Drug Free Schools and Communities Act, 20 U.S.C. Section 1145g and 34 C.F.R. Section 861 et seq.; Drug Free Workplace Act of 1988, 41 U.S.C. Section 702

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 sub-

stance 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 college President/CEO.

The college President/CEO 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 Student Conduct

It is the policy of the Citrus Community College District to establish rules of student conduct that are in the best interests of both the student and the College. Further, rules of due process shall be established to ensure that students' rights will be scrupulously guarded. Enforcement procedures will be fair and equal for all. These procedures are intended to supplement rather than replace criminal prosecution when such action would also be appropriate.

A currently-enrolled student may be disciplined for one or more of the following causes, which must be related to district attendance or activity. These categories of behavior are not intended to be an exhaustive list, but are examples of causes, and are good and sufficient causes, for disciplinary action.

1. Academic dishonesty, such as cheating or plagiarism, or knowingly furnishing false information to the college.
2. Forgery, alteration or misuse of college documents, records, or identification.
3. Obstruction or disruption of instructional, counseling, administrative, disciplinary, public service or other authorized college functions or activities or willful defiance of the valid authority of supervisors, instructors, counselors, administrators, college officials or other college personnel engaged in the performance of their duties.
4. Assault, battery, abuse, any threat of force or violence directed toward any person, or conduct which threatens or endangers the health or safety of any person, on college owned or controlled property, at college sponsored or supervised functions, or related to or arising from college attendance or activity.
5. Theft of or willful damage to property of Citrus College or of a member of the college community, including but not limited to, property owned by visitors, students or employees, on campus, at an authorized college activity, or otherwise related to or arising from college attendance or activity.
6. Unauthorized entry to or use of College facilities.

7. Violation of college rules or regulations including campus policies concerning student organizations, the use of college facilities, or the time, place and manner of public expression.
8. Use, possession, or distribution of alcoholic beverages, narcotics, or dangerous drugs or controlled substances except as expressly permitted by law, or presence on the campus or at a college-authorized event while under the influence thereof.
9. Disorderly, lewd, indecent, or obscene conduct, expression, or language on college owned or controlled property or at college sponsored or supervised functions, or otherwise related to or arising from college attendance or activity.
10. Use of slander, libel or verbal abuse in any way to cause defamation or which materially disrupts the normal operation of the college and/or of its personnel in the course of their duties.
11. Persistent violation of classroom standards of conduct as established by the instructor.
12. Possession or use of explosives, dangerous chemicals, deadly weapons, or any item that may be used to threaten bodily harm on college property, at a college function, or otherwise related to or arising from college attendance or activity, without prior authorization of the college Superintendent/President or designee.
13. Conduct that adversely affects the student's suitability as a member of the academic community.
14. Any other cause not listed above which is identified as "Good Cause" by the Education Code.

Violations of the Standards of Student Conduct are subject to any of the following types of disciplinary actions:

1. Reprimand
2. Disciplinary Probation

3. Disciplinary Suspension
4. Summary Suspension
5. Expulsion

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 on the internet at www.citruscollege.edu/stdntsrsv.

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 disapproved 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-4219, 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**

From January 1, 2004-December 31, 2006, the following are the criminal offenses which occurred on campus and reported to the Security Office and public agencies:

Offense	2004	2005	2006
Murder	0	0	0
Manslaughter	0	0	0
Sex Offense Force	1	0	0
Sex Offense (Non Force)	0	0	0
Robbery	1	0	2
Aggravated Assault	7	4	8
Burglary	10	29	7
Vehicle Theft	2	7	4
Arson	0	0	0
Narcotics /Drug Offenses	2	0	0
Alcohol Offense	2	0	0
Weapon Offenses	0	0	1
Hate Crimes	0	0	0

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/

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 qualify 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

Unless specifically exempted by statute, every course, course section or class, the average daily attendance of which is to be reported by the district, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established

pursuant to Title 5 of the California Administrative Code.

Public Safety

See Campus Security

Student Rights and Privacy Act

Citrus College student records are maintained in accordance with the Family Educational Rights and Privacy Act (FERPA) and the California Education Code. 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 Policy 5180.

A student's directory information (student's name, address, telephone number, date and place of birth, major field of study, class schedule, 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.

Questions concerning student's rights under the privacy act should be directed to the Admissions and Records Office, 626-914-8511.

Student Right-to-Know

In compliance with the Student-Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), 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.

Beginning in Fall 1996, a cohort of all certificate of achievement-, degree-, and transfer-seeking first-

time, full-time students were tracked over a three-year period. Their transfer rates do not represent the success rates of the entire student population at Citrus College, nor do they account for student outcomes occurring after this three-year tracking period.

Based upon the cohort defined above, 28.7 percent attained a certificate of achievement or degree or became 'transfer prepared' during a three-year period from fall 1996 to spring 1999. Students who are 'transfer-prepared' have completed 56 transferable units with a GPA of 2.0 or better.

Based on the cohort defined above, 23.6 percent transferred to another postsecondary institution, (UC, CSU or another California community college) prior to attaining a degree, certificate of achievement or becoming 'transfer--prepared' during a five-semester period from spring 1997 to spring 1999.

More information about Student Right-To-Know Rates and how they should be interpreted can be found at the California Community Colleges "Student Right-To-Know Rate Disclosure Web site," located at <http://srtk.cccco.edu>

Faculty and Administrators

(Date of Appointment follows name)

- Abas, Audrey (1980)
DSP&S Counselor
B.A., M.A., University of Wyoming
- Afzali, Ana (1997)
Spanish
A.S., Westbrook College; B.A., University of Maryland;
M.A. Ph.D., University of California, Los Angeles
- Allen, Ann (2005)
Director of Child Development Center
B.S., California State University, Northridge,
M.F.T., Philips Graduate Institute, Ed.D., Nova
Southeastern University
- Anderson, Brian (1999)
Mathematics
B.S., Hofstra University; M.A., Claremont
Graduate School
- Anson, Melanie (1988)
Public Address/Speech
B.A., University of California, Los Angeles; M.A.,
Ph.D., University of Southern California
- Arredondo, Dora (2004)
Dental Technology
B.S., University of Phoenix
- Avalos, Steve (2000)
Counseling
A.A., Mt San Antonio College; B.A., California State
University, Long Beach; M.A., Azusa Pacific University
- Bakhit, Kathy (2004)
Economics
B.S., M.S., California State Polytechnic University,
Pomona
- Bautista, Susan (2006)
Cosmetology
A.S., Mount San Antonio College
- Bigby, Shauna (2006)
College Nurse
A.A., Mount Saint Mary's College; B.S., University
of Southern California; M.S. California State University,
Long Beach
- Bohatch, Eugene (1997)
International Trade Center Director
B.A., California State University, Long Beach;
M.B.A., University of Southern California
- Boquiren, Connie (1997)
Licensed Vocational Nursing
B.S.N., M.Ed., Saint Louis University
- Borja, Patrick (2004)
Accounting
B.S., M.A., M.B.A., California State University,
Los Angeles
- Bowman, Deborah (2004)
Licensed Vocational Nursing
B.S., California State University, Fullerton
- Boxley, Jackie (2004)
Physical Education
B.S., California State University, Fullerton; M.A.,
Azusa Pacific University
- Brawner, Mary (1990)
Physical Education
B.S., Fort Hays State University; M.S., Fort Hays
State University
- Brooks, Ervalyn (2002)
Director of Cosmetology
A.A., Fullerton College
- Brown, Cherie (1998)
Fine Arts
B.A., California State University, Fullerton; M.F.A.,
University of California, Irvine
- Brown, David (1999)
Automotive
A.S., Citrus College
- Brown, Rick (2006)
Psychology
M.A., Ph.D., Emory Institute, Atlanta
B.A., University of Louisville, Kentucky
- Buchwald, Rosalinda (1983)
Director of Fiscal Services
B.S., University of La Verne
- Call, Jack (1999)
Philosophy
B.A., California State University, Los Angeles; M.A.,
Ph.D., Claremont Graduate School
- Carr, Darrell (1990)
Photography
A.A., Citrus College; B.A., California State University,
Los Angeles
- Carver, Sally A. (1980)
Cosmetology
A.S., Citrus College; Voc. Credential., University of
California, Los Angeles
- Casey, David (2001)
Mathematics
B.A., Carleton College; M.A., University of Washington;
J.D., University of Toledo

- Castillo, Claudia (2004)
Counseling
B.A., California State University, Fullerton; M.A., Chapman University
- Clark, Jeremy (2001)
Automotive
B.S., California State University, Long Beach
- Colville, L. Holly (1991)
Spanish
B.A., University of California, Los Angeles; Vocational Credential, University of California, Los Angeles; M.A., University of California, Los Angeles
- Cornett, William (1993)
Diesel Technology
A.A., Cerritos College; B.A., California State University, Long Beach
- Cross, Cynthia (2005)
ESL
B.A., University of California, Riverside; M.A., California State Polytechnic University, Pomona
- Cummins, Shuling (1976)
Mathematics
B.S., M.S., California State Polytechnic University, Pomona
- Dau, Carsten (1997)
English
B.A., M.A., Louisiana State University
- Duffy, Dyane (2001)
Art
B.A., California State University, Chico; M.F.A., Claremont Graduate School
- Durfield, Timothy (2006)
Business
B.S., M.B.A., Azusa Pacific University; J.D., Western State University College of Law
- Eiland, Thomas (1997)
English
B.A., M.A., California State Polytechnic University, Pomona
- Eisel, Gunnar (1989)
Music
A.A., Citrus College; B.A., California State University, Long Beach; M.A., California State University, Fullerton
- Eisel, Roberta (2000)
English
B.A., California State University, Long Beach; M.A., Occidental College; M.P.A., California State University, Los Angeles
- Ellis, Jeannette (2006)
Licensed Vocational Nursing
B.S., M.S., University of Phoenix, Arizona
- Eng, Marilyn (1984)
Counseling
B.S., Miami University, Ohio; M.A., Ohio State University
- Estrada, Maureen (2000)
Director of Health Sciences
A.S., Rio Hondo College; B.S., M.S., University of Phoenix, Arizona; Ph.D., Case Western Reserve University
- Evans, Robert (1987)
Philosophy
B.A., M.A., California State University, Long Beach; M.A., J.D., University of Southern California
- Everest, Rob (1999)
Mathematics
B.A., M.S., Southern Oregon University; M.A., Azusa Pacific University
- Fernandes, Richard (1992)
Architectural Drafting
B.A., San Diego State University; M.A., California State University Los Angeles; Ph.D., Pepperdine University
- Fincher, John (1998)
Language Arts/Speech
B.S., West Georgia College; M.A., California State University Los Angeles
- Fink, Brenda (1996)
Human Resources/Staff Diversity Officer
B.A., M.A., University of La Verne; M.B.A., University of Redlands
- Flores, Richard (1998)
Computer Science & Information Systems
B.A., M.A., California State University Northridge; M.S., Pepperdine University
- Galvan, Alex (1996)
Music
B.A., M.A., California State University, Los Angeles
- Garate, Elisabeth (2000)
Spanish
B.A., M.A., California State University, Los Angeles; Ph.D., University of California, Los Angeles
- Ghidella, Richard (2004)
Business
B.A., M.B.A., California State University, Fullerton

- Glover, Patty (2004)
Cosmetology
B.S., California State University, San Bernardino
- Gomez, Steven (2001)
Physical Education
B.S., M.S., California State Polytechnic University,
Pomona
- Gong, Catherine (1994)
Mathematics
B.A., University of California, Santa Cruz; M.A.,
University of California, Berkley
- Gonzales, Rudy (2006)
Mathematics
B.A., M.S., California State University, Los Angeles
- Goodman, Robert(2000)
Forestry
B.S., California State Polytechnic University, Pomona;
M.S., California State Polytechnic University, Pomona
- Graciano, Albert (2002)
Cosmetology
Teaching Credential, University of California,
Los Angeles
- Grauso, Lynda (1999)
Licensed Vocational Nursing
A.A., Pasadena City College; B.S.N., University of
Phoenix; M.H.A., University of La Verne
- Green, Martin (2005)
Music
B.M.U., Brigham Young University; M.A., California
State University, Fullerton
- Green, Paula (2005)
Director of Communications
B.A., Pitzer College; M.A., Michigan State University
- Greene, David
Licensed Vocational Nursing
A.S., Citrus College
B.S., M.S., University of Phoenix, Arizona
- Greenwell-Cunningham, Maia (1997)
Sociology
B.A., University of Idaho; M.A., Washington State
University
- Greer, Maurice (1989)
Physical Education
A.A., Long Beach City College; B.S., California State
University San Jose; M.S., California State Polytechnic
University, Pomona
- Gregg, Judy (1990)
Human Development
B.A., University of California, Berkeley; M.A., Pacific
Oaks College
- Grossman, Bruce (2004)
Business
B.S., State University of New York, Binghamton; J.D.,
Washington University
- Guebert, Toby (1996)
Foreign Language
B.A., M.A., University of Illinois
- Gunderson, Mark (2000)
Reading
B.A., University of Maryland; M.S., Johns Hopkins
University
- 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
- Guttman, 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
- 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. Jeanne (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
B.S., M.S., University of California, San Diego; M.A.,
Ph.D., University of California, Los Angeles

- Hao, Lan (2006)
 Director of Institutional Research
 B.A., Tsinghua University, China; M.E., Ph.D., University of Southern California
- Harrington, Michael (2001)
 Director of Facilities & Support Services
 B.A., M.A., California State Polytechnic University, Pomona
- Hartman, Steven (1987)
 Adapted Physical Education
 B.S., M.S. Brigham Young University
- 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
- Hernandez, Salvador (2004)
 Cosmetology
 A.A., East Los Angeles College
- Herrera, Rafael (2007)
 Counseling
 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, Gregory (1979)
 Director, Performing Arts
 A.A., Chaffey College; B.A., California State University Fullerton
- 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
- Holland, Kim H. (1995)
 Director, Vocational Education
 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 Behavioral Sciences
 B.A., M.S., University of La Verne University; Ph.D., Brigham Young University
- 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
- Johansen, Greg (1995)
 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
- Kim, Andrew (2004)
 Behavioral Sciences
 B.S., University of California, San Diego; M.A., Ph.D., University of California, Los Angeles
- Kondo, Arnold (1997)
 Biological Sciences
 B.S., University of California, Davis; M.S., University of California, Riverside
- Korn, Dennis (1991)
 Automotive Technology
 A.S., Chaffey College; B.V.E., M.A., California State University, San Bernardino

- Lancaster, James (2000)
Dean of Career, Technical and Continuing Education
A.S., Cerritos College; B.V.E., California State University,
Long Beach; M.A., California State University,
Los Angeles
- Langford, Bruce (1997)
Music
B.M., California Institute of the Arts; M.M.,
Southwestern Theological School of Music
- Lanphear, Keleigh (2001)
Counseling
B.S., Montana State University; M.A., Gonzaga
University
- Lawrence, Patricia (1991)
Reading
A.A., San Bernardino Valley C.C.; B.A., M.A., California
State University, Los Angeles
- Lee, Samuel (2002)
Dean of Language Arts
B.A., California State University, Fresno; M.S.,
University of Southern California
- Lerette, Caroline (2001)
Cosmetology
B.A., Union Institute
- Lindsey, Stephen (1987)
Dean of Business and Distance Education;
B.A., Claremont Men's College; J.D., Loyola University
- Longyear, Alicia (2006)
Student Athletics
B.A., University of Redlands; M.S.,
University of La Verne
Certificate in Sport Counseling, University of La Verne
- Low, Joyce (1999)
Mathematics
B.S., M.A., University of Alabama; M.S., University of
Southern California
- Lubisich, Senya (2004)
History
B.A., M.A., Ph.D., University of California, Riverside
- Lucido, Grace (2005)
Cosmetology
A.A., Coastline Community College, B.A., California
State University, Long Beach
- Malmgren, Irene (2005)
Vice President of Instruction
A.A., Santa Ana College; B.A., M.A., California State
University, Fullerton; M.A., Chapman University
- McBurney, Robin (1997)
Counseling
A.A., Eckerd College; B.A., University of California,
Santa Cruz; M.S., California State University,
Los Angeles
- McClain, James (1986)
Dean of Mathematics
B.S.M.E., Northern Arizona University; M.Ed.,
Azusa Pacific University
- McDonald, Martha (2004)
Dean of Students
B.A., M.A., Chapman University
- McGarry, Anna (1999)
Spanish
B.A., M.A., University of California, Davis; M.A.,
California State University, Sacramento
- McLeod, Jennifer (2006)
Disabled Student Programs and Services Coordinator
B.A., Southern California College/Vanguard University;
M.S., California School of Professional Psychology/
Alliant International University, San Diego
- Mead, Rachel (2006)
Cosmetology
Lifetime Credential
- Medina, Lilia (2005)
Director of Financial Aid
A.A., Cerritos College; B.A., California State University,
Dominguez Hills
- Medrano, Esmeralda (2006)
Mathematics
B.S., University of California, Los Angeles, M.S.,
California State University, Los Angeles
- Mendoza, Natalie (2005)
Counseling
B.S., California State University, Fullerton; M.S.,
California State University, Los Angeles
- Melendez, Jr., Robert (2007)
Director of EOP&S, CARE and CalWORKs
B.A., University of California, Irvine; M.A.,
Chapman University
- Merandi, Michael (1986)
Physical Education
B.S., M.A., California State University, Los Angeles
- Mercurio, Vincent R. (1988)
Disabled Student Programs and Services
A.A., Citrus College; B.A., University of La Verne; M.A.,
Azusa Pacific University

- Meza, Ralph (2006)
 Career and Transfer Center
 B.A., University of California, Irvine; M.A., California State University, Dominguez Hills
- Miles, Terrence (1998)
 Physical Science
 B.S., California State University, Northridge; M.A., University of California, Santa Barbara
- Mondrala, Scott (2005)
 Biology
 A.S., Citrus College; B.S., Ph.D., University of California, Riverside
- Moore, Elanie (1991)
 Art
 B.F.A., University of New Mexico; B.F.A., M.F.A., Art Center College of Design
- Morrison, Joanne (1983)
 Mathematics
 B.A., Pomona College; M.A., University of Southern California
- Munoz, Gino (2007)
 Music
 A.A., Citrus College; B.A., M.M., Azusa Pacific University
- Mustain, James (2001)
 Computer Science & Information Systems
 B.A., University of California, Los Angeles; M.S., University of Southern California
- Nguyen, Jimmy (2007)
 Counseling
 M.A., California State University, Dominguez Hills; B.S., California State University, Fullerton
- Nguyenhuu, Rick (2000)
 Mathematics
 B.S., California State University, Fullerton; M.S., California State University, San Bernardino
- Odrich, Steve (1990)
 Mathematics
 A.A., Los Angeles Valley College; B.A., M.S., California State University, Northridge; M.S., California State University, Los Angeles
- O'Hara, Stephen (2000)
 Recording Arts Technology
- O'Neil, Margaret (1990)
 Journalism
 B.A., St. Mary's College; M.A., Creighton University
- Over, Lucinda (1995)
 Dean of Counseling
 B.A., M.A., Azusa Pacific University
- Overly, David (1991)
 English
 B.A., University of So. Florida; M.A., University of Southern California
- Paek, Hyeyi (1991)
 Mathematics
 B.A., University of California, Los Angeles; M.S., California State University, Northridge
- Papner, Lois (1999)
 Dean of Admissions and Records
 A.S., Victor Valley College; B.S., M.B.A., Golden Gate University
- Perry, Carolyn (1997)
 Human Development
 B.A., California State University, Long Beach; M.A., University of La Verne
- Peters, Gerhard (2007)
 Political Science
 B.A., Georgetown University, Washington D.C.; M.A., (International Relations), University of San Diego; M.A., (Political Science), University of California, Santa Barbara
- Plug, Michelle (2006)
 Articulation Officer
 B.A., Psychology, CSU Fullerton; M.S., Educational Counseling, University of La Verne
- Pohl, Claudia (1999)
 Dental Assisting
 A.S., Chaffey College; B.A., California State University, San Bernardino
- Rabito, Eric R. (1994)
 Dean of Science, Engineering and Health Sciences
 B.S., California State Polytechnic University, Pomona; M.A., University of California, Riverside
- Rachford, Mary Ann (1997)
 Multi-Media
 A.A., Pasadena City College; B.A., M.A., California State University, Los Angeles
- Ramos, Gloria (2004)
 Physical Sciences
 B.S., M.S., Florida International University
- Richard, Levi (2001)
 Business
 B.A., M.B.A., Azusa Pacific University

- Riderer, Lucia (2005)
Mathematics
B.S., Babes Bolya University
- Rivadeneira, Justina (2001)
Counseling
B.A., M.A., California State University, San Bernardino
- Ross, Glen (1994)
Political Science
B.A., University of Utah; M.A., Brigham Young University
- Rudd, Rebecca (2006)
English
A.A., Orange Coast College, B.A., M.A., California State University San Bernardino
- Rugeley, Barbara (1992)
Librarian
B.A., M.L.S., University of Oklahoma
- Ryba, David (1995)
Physical Science
B.S., Harvey Mudd College; Ph.D., University of California, Santa Barbara
- Sackett, Erin (2007)
Health Sciences
A.S.N., Glendale Community College; B.S.N., University of Phoenix
- Sadri, Badieh (2006)
Chemistry
B.S.E., The University of Michigan, M.S., California State Polytechnic University
- Saldana, Rudy (1997)
Philosophy
A.A., Mt. San Antonio College; B.A., California State University, Fullerton; M.A., Claremont Graduate School
- Salwak, Dale F. (1973)
English
B.A., Purdue University; M.A., Ph.D., University of Southern California
- Santiago, Lawrence (2008)
Nursing
BSN, Azusa Pacific University; M.S., Cal State Dominguez Hills
- Scott, Christopher (1997)
Mathematics and Physics
B.S., M.S., University of California, Los Angeles
- Shannon, James (1974)
Psychology
B.A., M.S., California State University, Los Angeles
- Shaw, Nickawanna (2006)
Physical Education
B.A., Mount Holyoke College, M.S., Smith College
- Shimokawa, Kristie-Ann (2006)
Noncredit Counseling and Matriculation
B.A., University of Hawaii at Manoa, Honolulu
M.S., California State University, Los Angeles
- Shrope, Douglas (1994)
Music
B.A., California State University, Los Angeles
- Skalicky, James (1988)
Psychology
B.S., M.A., Loyola University; Ph.D. Kansas State University
- Slack, Robert (1987)
Dean of Fine and Performing Arts
A.A., Solano College; B.A., California State University, Chico; M.M., Indiana University
- Smolin, Robert (2001)
Business
B.A., California State University, Fullerton; M.B.A., California State University, Long Beach
- Smythe, Sylvia (2007)
Director of Basic Skills
A.A., Cypress College; B.A., California State University, Fullerton; M.A., San Jose State University
- Solheim, Bruce (1998)
History
B.A., Campbell University; M.A., Pacific Lutheran University; Ph.D., Bowling Green State University
- Solis, Roberto (2000)
Computer Science & Information Systems
A.S., National Institute of Technology; B.S., California State University, Los Angeles; M.S., Azusa Pacific University
- Soremekun, Fola (1992)
History
B.A., Illinois Wesleyan University; M.A., Ph.D., Northwestern University
- Stoner, Bruce L. (1978)
Electronics
A.A., East Los Angeles College; Vocational Credential, University of California, Los Angeles
- Styles, Christine (2008)
Economics
B.A., San Diego State University;
M.A., Ohio State University

- Swan, Alfie (1999)
Mathematics
B.S., M.S., California State University, Los Angeles
- Swatzel, James (2004)
Mathematics
B.S., University of Redlands; M.A., California State University San Bernardino
- Spangler, Sarah (2006)
English
A.A., Riverside Community College, B.A., M.A., California State University, Fullerton
- Telesca, Lisa (1995)
English
B.A., M.A., Loyola Marymount University
- Thompson, John (1973)
Dean of Library
B.A., Purdue University; M.S.L.S., Ph.D., University of Southern California
- Tippins, Ralph (1990)
Mathematics
B.A., Humboldt State University; M.S., Ohio State University
- Trad, Mohamad (2001)
Mathematics
B.A., M.A., California State University, San Bernardino
- Tucker, Connie (1991)
English as a Second Language
B.A., Australian National University; M.A., University of California, Los Angeles
- Tucker, Gail (1990)
Licensed Vocational Nursing
B.S., B.A., Azusa Pacific University
- Tussy, Alan S. (1988)
Mathematics
B.S., University of Redlands; M.S., California State University, Los Angeles
- Van Citters, Beverly E. (1990)
Reading
B.S., M.Ed., Penn State University; Ph.D., University of Pittsburgh
- Van Horn, Tasha (1998)
Language Arts/Speech
B.A., M.A. California State University, Fullerton
- Vaughan, John (1999)
Dance
B.F.A., University of North Carolina at Greensboro
- Villa, Elizabeth (2004)
Counseling
B.A., California State Polytechnic University, Pomona; M.S., University of La Verne
- Villegas, Laura (1995)
Counseling
A.A., Citrus College; B.A., California State University, Los Angeles; M.A., University of Redlands
- Villeneuve, Anna (2000)
English
B.A., M.A., Humboldt State University
- Villeneuve, Theresa (2000)
Journalism
B.A., University of California, Santa Barbara; M.A., University of Colorado
- Volonte, Daniel (2004)
Theatre Arts
A.A., Citrus College; B.A., M.F.A., California State University, Fullerton
- Waddington, Brian (2000)
Social Science
B.A., University of California, Berkeley; M.A., San Francisco State University
- Walz, Sheryl (2005)
Sociology
A.A., Fullerton College; B.A., M.A., California State University, Fullerton
- Welz, Linda (2005)
Chief Information Services Officer
B.A., Bowling Green State University; M.A., University of South Carolina
- White, Gailynn (1999)
Sociology
B.A., M.A., Arizona State University
- White, Sheila (2000)
Mathematics
B.A., M.A., California State University, Fullerton
- Wise, Jody (2004)
Dean of Physical Education, Health & Athletics
B.A., University of Nebraska, Kearney; M.S., University of Arizona
- Wong, Julie (1991)
Licensed Vocational Nursing
C.C.R.N., Amer. Assoc. of Critical Care Nurses; B.S., California State University, Long Beach
- Wood, Jack (1990)
English
B.A., M.F.A., University of Iowa

Woolum, James (1999)

Administration of Justice

A.A., Mt. San Antonio College; B.S., California State University, Los Angeles; M.P.A., University of Southern California

Wurst, Clifton (1992)

Adapted Physical Education and Aquatics

B.A., University of Dubuque; M.A., Azusa Pacific University

Zaharek, James (1996)

Administration of Justice

B.A., M.A., California State University, Los Angeles

Zhuang, Ying (1999)

Computer Science

B.S., Gueizhou Institute of Technology; M.S., Jiangsu Institute of Technology; M.S., Oklahoma State University

Faculty and Administrators Emeritus

ALVARADO, BERTHA (1994) - Cosmetology
 AMDON, KAYE (2002) - Business
 ANDERSON, FRANK D. (1987) - Physical Education
 ANDRUS, GEORGEANN (1996) - Biological Sciences
 ANDRUS, PATRICIA (1989) - Nursing
 BAGGETT, PAT J. (2002) - Business
 BARNEY, PATRICIA (1998) - Associate Dean of Letters
 BARTEL, BARTON (1997) - Dean of Faculty
 BARTON, EUGENE (1994) - Physics/Engineering
 BASONE, NELLIE (1994) - Cosmetology
 BEAN, ELIZABETH E. (1967) - Zoology
 BILLUPS, ROBERT E. (2000) - Mathematics
 BOLLINGER, BEN D. (2005) -
 Dean of Fine and Performing Arts
 BOWMAN, GALEN (1984) - Counseling
 BRADLEY, BETTY L. (1969) - Dental Assisting
 BRATT, GEORGE (1988) - Mechanical Technology
 BRIONES, ARTHUR M. (2004) - Dean of Counseling
 BUKOWSKI, MARY (1999) - Cosmetology
 BULLOCK, ROBERT S. (2001) - Art
 BURNETT, GARY A. (2001) - Physical Education
 BUSTIN, P. ELAINE (1987) - Medical Assisting
 CAIN, PATRICK T. (2001) - Counseling
 CAMPBELL, WARREN (1992) - Social Sciences
 CARLSON, FREDERIC (1998) - Speech, Drama
 CARLSON, GEORGE (2002) - Astronomy
 CASSEY, JOHN (2002) - Social Science
 CHANDLER, DONALD (1988) - Cosmetology
 CLARK, REGINALD (2005) - English
 CLAPROOD, ROBERT L. (2004) - Associate Dean of
 Physical Education Health and Athletics
 CLARK, CLARA (1995) - Vocational Nursing
 CLINE, GENA B. (1972) - College Nurse
 COLLATO, FRANCES (2001) -
 Director of Foundation and Grants
 COLLETT, WILLIAM (1983) - Cosmetology
 COLLINS, MARILYN (2006) -
 Director of Health Occupations
 CONKLIN, AUGUST (1981) - Biological Science
 CONLY, EDWARD (1989) - Physical Education
 COX, MELANIE (2003) -
 Dean of Admissions and Financial Aid
 COX, THOMAS C. (2005) - Automotive Technology
 CULBERTSON, PATRICK (2008) -
 English as a Second Language

- CUNNYNGHAM, WANDA (2008) - Dean of Career,
Technical, Continuing and Contract Education
- DAMRON, TERRENCE (2006) - Dean of
Science/Engineering and Health Occupations
- DENNINGHOFF, BEULAH (1982) - Vocational Nursing
- DERMENGIAN, SAM (1984) - Business
- DESIDERIO, ANTHONY (1994) - Music
- DIAMOND, DR. HELEN (1987) - Business
- DIAZ, JOSEPH (1984) - Counseling
- DIMIT, CAROL J. (2004) - Dental Assisting
- DOLD, JUDY (1999) - Dental Assisting
- DWYER, JOHN (1995) - Counseling
- EBERSOLD, LEO (1959) - Adult Education, Principal
- EDWARDS, NEIL (2002) - Physical Education
- EDWARDS, ROY G. (1987) - Mechanical Technology
- EMERICK, SYLVIA (1983) - Business
- ENDICOTT, HATTIE W. (1975) - Cosmetology
- ERICKSON, EDITH (2000) - Foreign Languages
- FISHER, CHARLES (2003) - Cosmetology
- FRENCH, UNA M. (1959) - Modern Languages
- GARBY, HELEN M. (1981) - English
- GASS, ADNEY D. JR. (1987) - Art
- GERFEN, THOMAS W. (2006) - Interim Dean CSIS
- GORELICK, GLENN A. (2007) - Biological Sciences
- GRACIAL, LILIAN (1988) - Foreign Language
- GUILLAUME, GORDON (1994) - Mathematics
- GULDBERG, GLENDON R. (1991) -
Vice President of Instruction
- GULLI, JAMES (2004) - Dean of Physical Education, Health
and Athletes
- HAINLINE, VAN (1996) - Biological Sciences
- HALLETT, ROBERT (1983) - Art
- HANDY, ROSS (1984) - Vice President/Assistant to
President
- HARDIN, BOBBYE (1989) -
Counselor/Financial Aid Director
- HARDING, PEGGY (2000) - Reading
- HARGETT, GLENN E. (1978) - Reading
- HAUGH, ROBERT D. (1981) -
Superintendent/President
- HAYDEN, FLOYD S. (1945) - Superintendent/President
- HERDEG, HAROLD L. (1952) - Industrial Technology
- HERRING, DENNISON C. (1979) - Art
- HODSON, ELLENOR (2005) - Director of Child
Development Center
- HOLLAND, ROBERT (1993) - Business
- HUMPHREY, LINDA T. (2004) - English
- HUNSICKER, KARL (2007) - Mathematics
- HUSUNG, WILLIAM (1988) - Drafting
- HURLIMANN, PETER (1994) - Chemistry
- ISHIDA, JOE (1990) - Mechanical Technology
- ITO, TOSHIKO (1991) - Cosmetology
- JANSS, JACK C. (2001) - Associate Dean of Liberal Arts
- JENKINS, ROBERT (1988) - Art
- JENSEN, JAMES M. (1977) -
History, Government, Education
- JOHNSON, ANNE (1990) - Language Arts
- JOHNSON, ARMIN (1988) - Photography
- JOHNSON, BERNICE (2004) - Director of Cosmetology
- JOHNSON, MANLEY (1988) - Behavioral Science
- JONES, MARIE (1990) - Vocational Nursing
- KAKUUCHI, JACK H. (1986) - Physical Education
- KEARNEY, DOROTHY L. (1981) -
Dean of Counseling and Guidance
- KEITH, EDWIN (1999) - Business
- KELLY, VINCENT (1998) - Mathematics
- KELLY, DR. WIN (1984) - Language Arts
- KERR, MARIANNE (1995) - Physical Education
- LANGE, LILLIAN (1982) - Cosmetology
- LEASON, CHRISTOPHER (1994) - Counseling
- LENGEFELD, UELAINE (2005) - Language Arts
- LEOS, RONALD (2007) - Political Science
- LEVY, RONALD (1976) - Psychology
- LINDOERFER, SANDRA (2008) -
Director of Human Resources
- LORENZEN, BETTY JO (1982) - Dental Assisting
- LYNCH, MINNIE J. (1962) - Business
- MADSEN, DONALD L. (1981) - Vice President -
Student Personnel
- MAGLIOCCO, FRANK (1983) - Music
- MALONE, JEAN (2004) - Vice President of Human
Resources and District Chief Negotiator
- MANGOLD, CAROL (1983) - Vocational Nursing
- McCRUMBY, ELAINE (2002) - Business
- McCUSKER, WILLIAM (2005) -
Director of Computer Center
- McDONNELL, ROBERT I., JR. (1987) -
Physics and Engineering
- McKEE, JANE M. (1977) - Sociology
- McLEOD, IRENE (1958) - Librarian
- MERCURIO, BLAS (1981) - Foreign Languages
- MEYERS, BILLY (1986) - Automotive Technology
- MILLER, KENT (2004) - Physics
- MILLER, ROBERT (1983) - Chemistry
- MINER, LEO E. (1987) - Mechanical Technology
- MORRIS, MILDRED B. (1956) - Business

- MURPHY, JOANNE (1996) - Business
- NEWBY, BARBARA (2005) - Interim Director,
Child Development Center
- 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
- SANGER, C. SALLY (2004) - Behavioral Science
- 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
- STRYCUA, JOHN A. (1987) -
Physical Education, Health, Athletics
- 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, 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
- VAUGEOIS, 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
- WHITE, JOAN E. (1981) - English and Philosophy
- WILLIAMS, JAMES D. (2005) -
Interim Vice President of Instruction
- WILSON, HAMILTON (1989) - Cosmetology
- WISDOM, ALINE CROWLEY (1979) - Librarian
- WOODWARD, DIANE (2008) - Fine Arts/Dance
- 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 certificate of achievement 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—At Citrus College each course section has a CRN (course reference number) number to differentiate the section by class meeting day and time.

Department—An administrative division of the college which offers instruction in a particular branch of study.

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.

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 Determination Date—That day immediately preceding the opening day of instruction of the semester during which the student proposes to attend.

Schedule of Classes—A booklet 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.

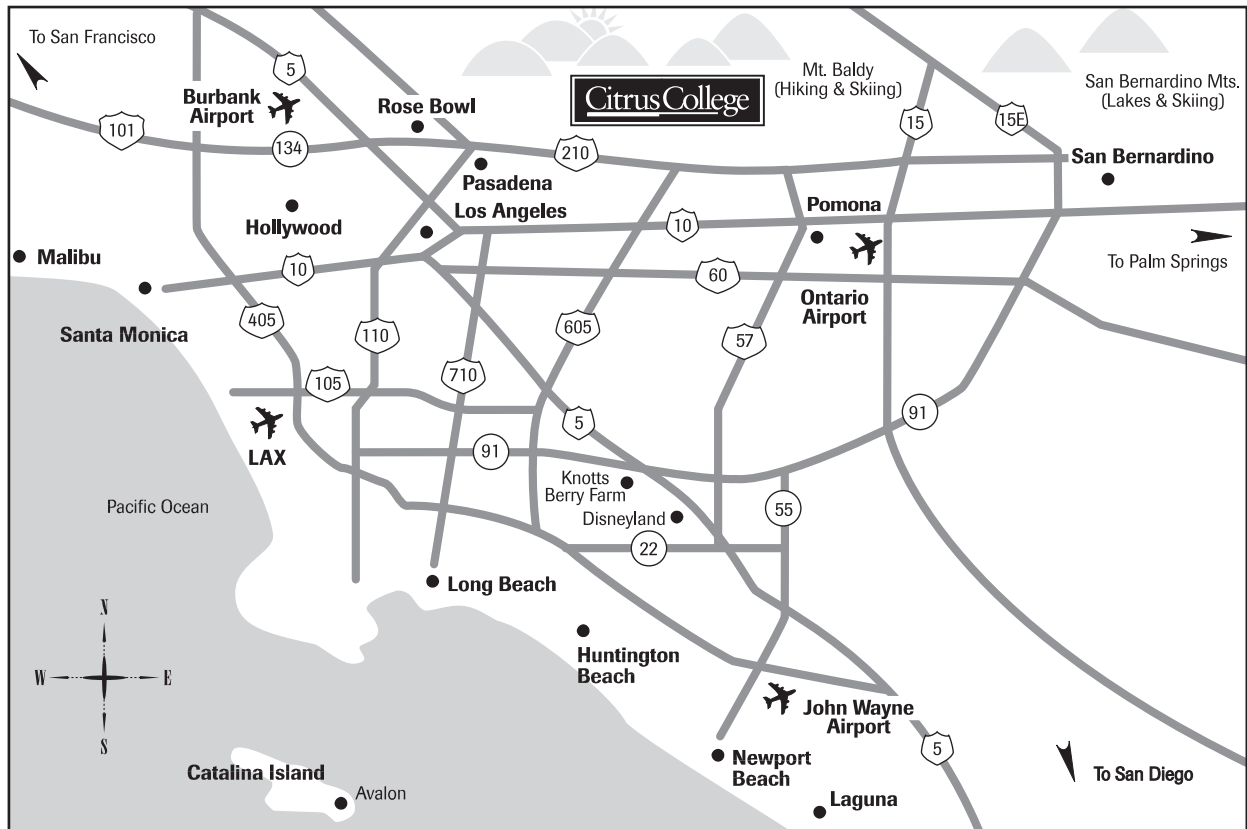
Transfer Courses—Courses for students planning to transfer to a four-year college/university. Courses transferable to the California State University system are indicated by “CSU” and those transferable to the University of California are indicated by “UC” next to the course number in this catalog.

Transferable Units—College units earned through satisfactory completion of courses which have been articulated with four-year institutions.

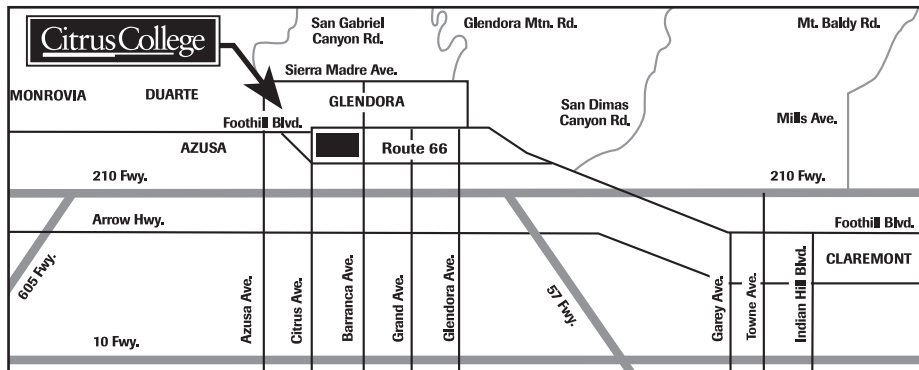
Units—The amount of college credit earned by satisfactory completion of a specific course taken for one semester. Each unit represents one hour per week of lecture or recitation, or three hours in laboratory or other exercises not requiring outside preparation. In general, two clock hours of preparation 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., CR, or NC.

Freeway Map



Street Map



Maps not to scale. All visitors must display a parking permit available for \$5 from the parking vending machine, the information booth or the Security Office. Handicapped parking is available in every lot. To use handicapped parking, you must have a DMV placard or a handicapped parking permit issued by Disabled Students Programs and Services or the Security Office.

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